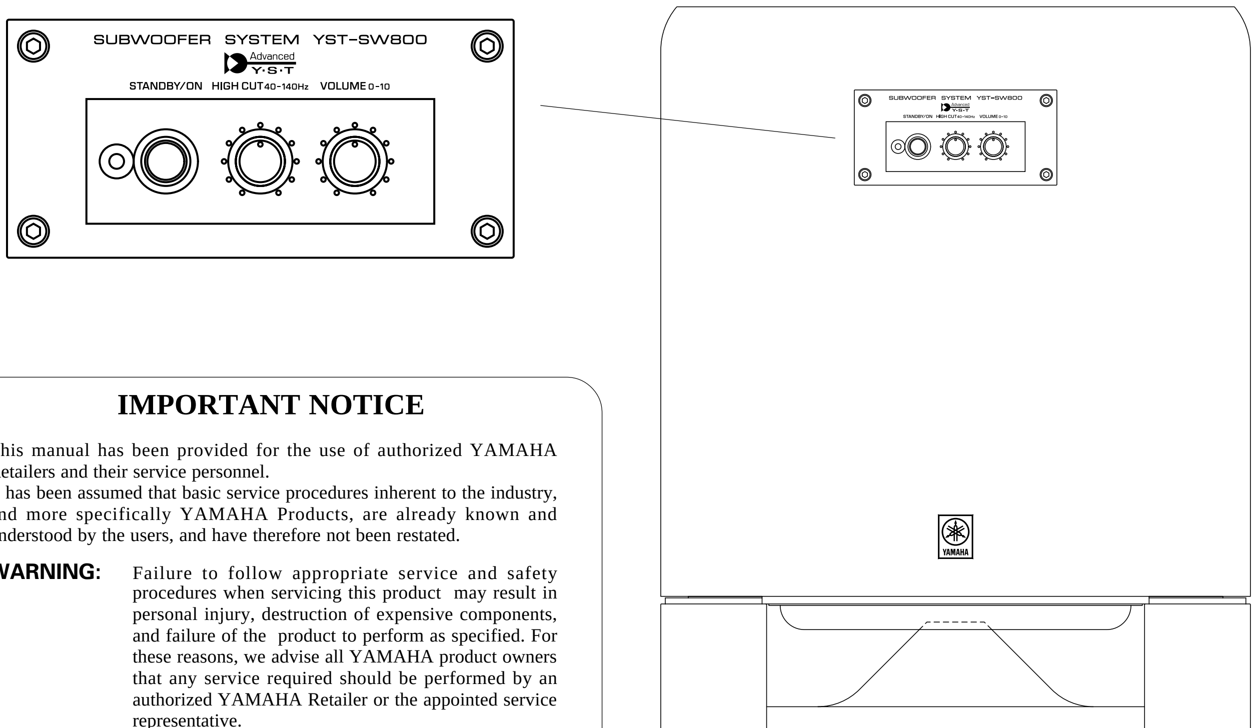
SUBWOOFER SYSTEM
YST-SW800
SERVICE MANUAL



IMPORTANT NOTICE

This manual has been provided for the use of authorized YAMAHA Retailers and their service personnel.
It has been assumed that basic service procedures inherent to the industry, and more specifically YAMAHA Products, are already known and understood by the users, and have therefore not been restated.

WARNING: Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components, and failure of the product to perform as specified. For these reasons, we advise all YAMAHA product owners that any service required should be performed by an authorized YAMAHA Retailer or the appointed service representative.

IMPORTANT: The presentation or sale of this manual to any individual or firm does not constitute authorization, certification or recognition of any applicable technical capabilities, or establish a principle-agent relationship of any form.

The data provided is believed to be accurate and applicable to the unit(s) indicated on the cover. The research, engineering, and service departments of YAMAHA are continually striving to improve YAMAHA products. Modifications are, therefore, inevitable and specifications are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

WARNING: Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground buss in the unit (heavy gauge black wires connect to this buss).

IMPORTANT: Turn the unit OFF during disassembly and part replacement. Recheck all work before you apply power to the unit.

■ CONTENTS

このサービスマニュアルは、エコマーク認定の再生紙を使用しています。
This Service Manual uses recycled paper.

100721

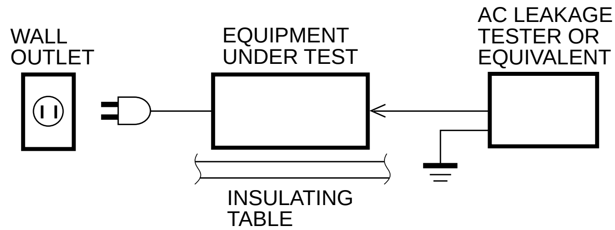
YAMAHA
YAMAHA CORPORATION
P.O.Box 1, Hamamatsu, Japan

■ TO SERVICE PERSONNEL

1. Critical Components Information
   Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.

2. Leakage Current Measurement (For 120V Models Only)
   When service has been completed, it is imperative to verify that all exposed conductive surfaces are properly insulated from supply circuits.

- Meter impedance should be equivalent to 1500 ohm shunted by 0.15µF.



- Leakage current must not exceed 0.5mA.
- Be sure to test for leakage with the AC plug in both polarities.

WARNING: CHEMICAL CONTENT NOTICE!

The solder used in the production of this product contains LEAD. In addition, other electrical/electronic and/or plastic (where applicable) components may also contain traces of chemicals found by the California Health and Welfare Agency (and possibly other entities) to cause cancer and/or birth defects or other reproductive harm.

DO NOT PLACE SOLDER, ELECTRICAL/ELECTRONIC OR PLASTIC COMPONENTS IN YOUR MOUTH FOR ANY REASON WHATSOEVER!

Avoid prolonged, unprotected contact between solder and your skin! When soldering, do not inhale solder fumes or expose eyes to solder/flux vapor!

If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.

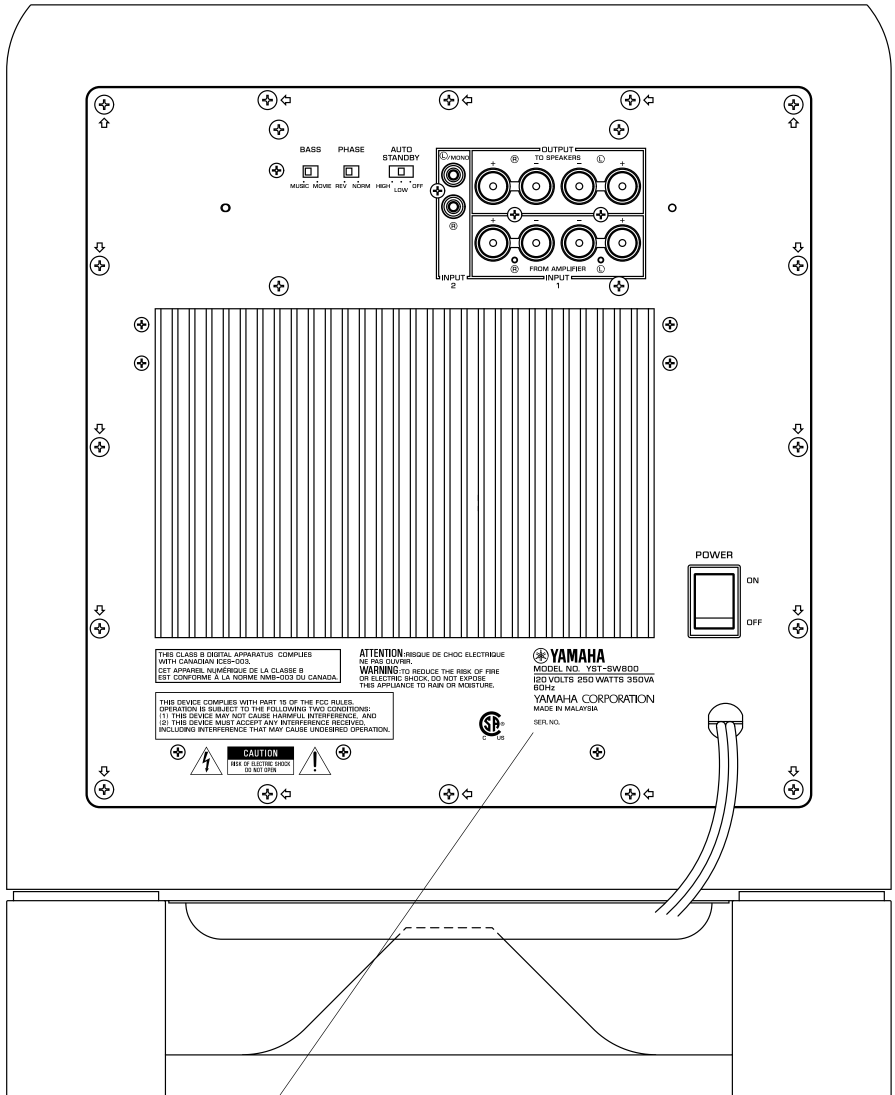
■ SPECIFICATIONS

Type	Advanced Yamaha Active Servo Technology
Driver	25 cm (9-13/16") cone woofer (JA25610) Magnetically shielded type
Amplifier Output	
U, C models	1kW
A, B, G models	800W/6Ω
Input Impedance	
INPUT1 (SP)	4.7kΩ
INPUT2 (PJ)	12kΩ
Frequency Response	18 Hz to 160 Hz (-10 dB)
Power Supply	
U, C models	AC120V, 60 Hz
A model	AC240V, 50 Hz
B, G models	AC230V, 50 Hz
Power Consumption	250W
Dimensions (W x H x D)	390 x 482 x 420 mm (15-3/8" x 19" x 16-9/16")
Weight	24 kg (52 lbs. 14 oz)
Finish	
All model	Black color
G model	Cherry color
Accessories	Nonskid pad x 4

** Specifications subject to change without notice.*

***U** .... USA model*
***C** ...... Canadian model*
***A** ..... Australian model*
***B** .... British model*
***G** ..... European model*

■ REAR PANEL



▼ U, C models

YAMAHA
MODEL NO. YST-SW800
120 VOLTS 250 WATTS 350VA
60Hz
YAMAHA CORPORATION
MADE IN MALAYSIA

SER. NO.

▼ A model

YAMAHA
MODEL NO. YST-SW800
240 VOLTS 250 WATTS
50Hz ∼
YAMAHA CORPORATION
MADE IN MALAYSIA

SER. NO.

N89

▼ B, G models

YAMAHA
MODEL NO. YST-SW800
230 VOLTS 250 WATTS
50Hz ∼
YAMAHA CORPORATION
MADE IN MALAYSIA

SER. NO.

VERIFIED EMC SEMKO

■ DISASSEMBLY PROCEDURES

(Remove parts in the order as numbered.)

1. Removal of Front Panel Ass'y

Remove 4 screws (①) and then remove the Front Panel Ass'y in Fig. 1.

* Use an Allen wrench (3mm) to unscrew the Front Panel Ass'y.

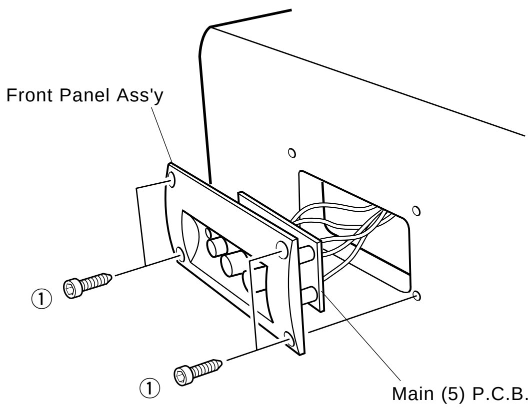


Fig. 1

2. Removal of Loud Speaker

a. Remove 8 screws (②) and then remove the Base Ass'y in Fig. 2.

b. Remove 8 screws (③) and then remove the Loud Speaker in Fig. 2.

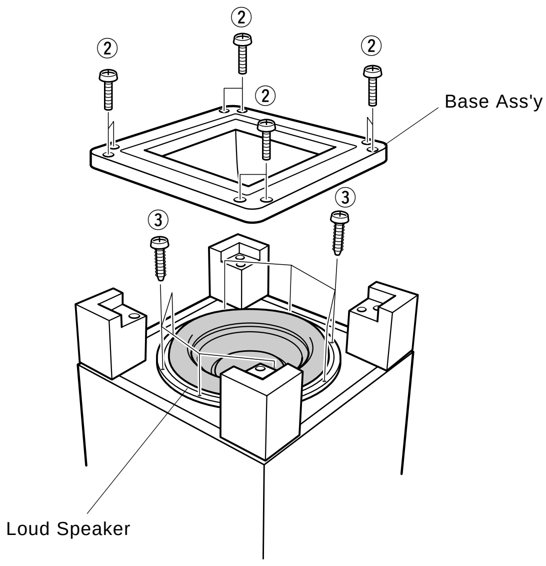


Fig. 2

3. Removal of Rear Panel Ass'y

Remove 16 screws (④) in Fig. 3.

*** Arrow marks (←) are printed to identify the screws to be removed.**

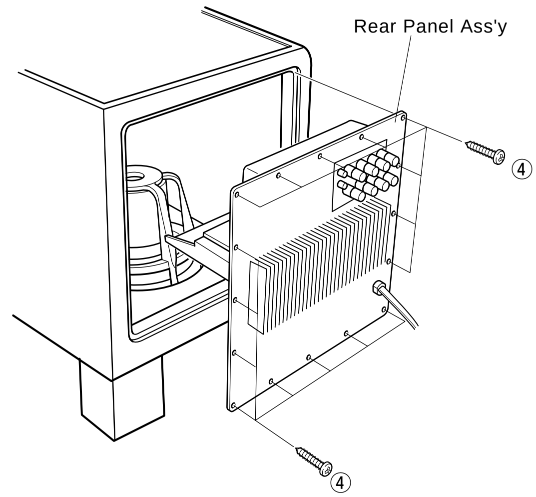


Fig. 3

*** When assembling the Rear Panel, check to ensure that the gasket is not damaged so as to prevent air leakage from occurring.**

● Installation of emblem

1. Put the emblem into the cabinet at the specified position.
2. Place a piece of cloth/wood on top of the emblem.
3. Using a mallet, hammer the emblem in place through the cloth/wood.

*** Use special care not to cause damage to the emblem or cabinet while hammering the emblem.**

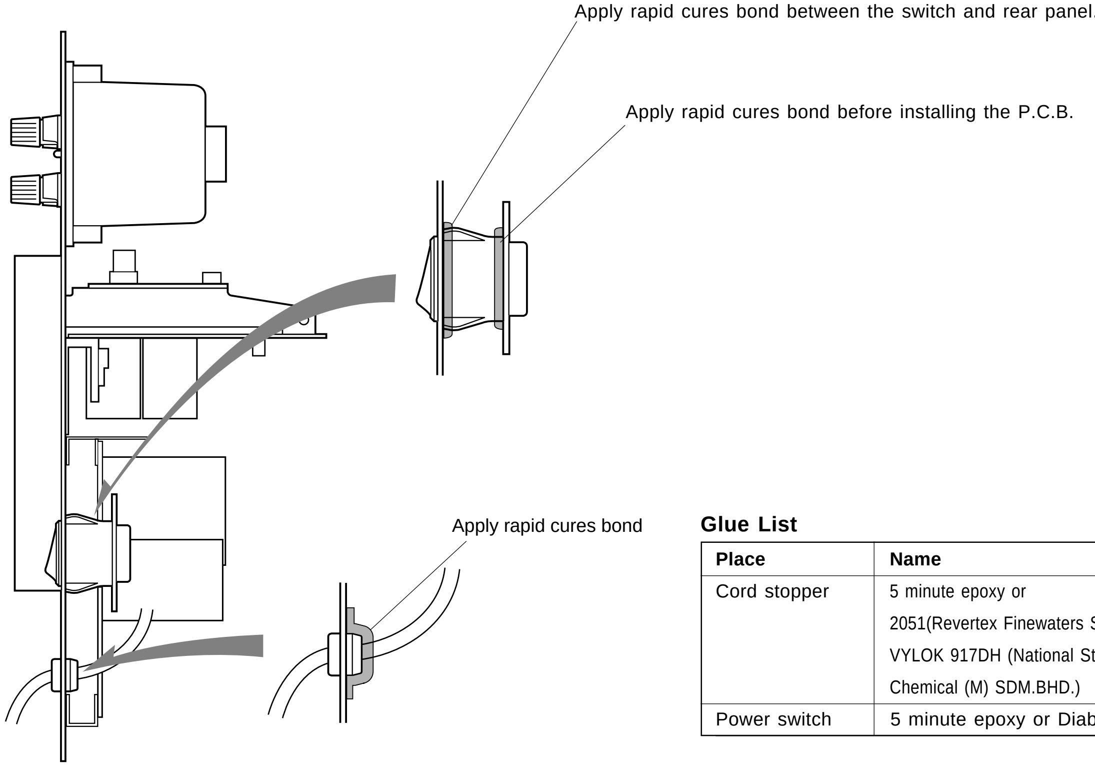
● Installation of power switch

Rapid cures bond (such as 5 minute epoxy) is required to fix the power switch.
As shown in Fig. 4, apply rapid cures bond (such as 5 minute epoxy) to the power switch (the area which contacts the rear panel), insert it in the rear panel and make sure it is fixed.
(Inserting the power switch in the rear panel only would not be sufficient for its secure installation.)

● Precaution for installation of power cord

After connecting the power cord, be sure to apply the rapid cures bond (such as 5 minute epoxy) to the cord stopper as shown in Fig. 4,

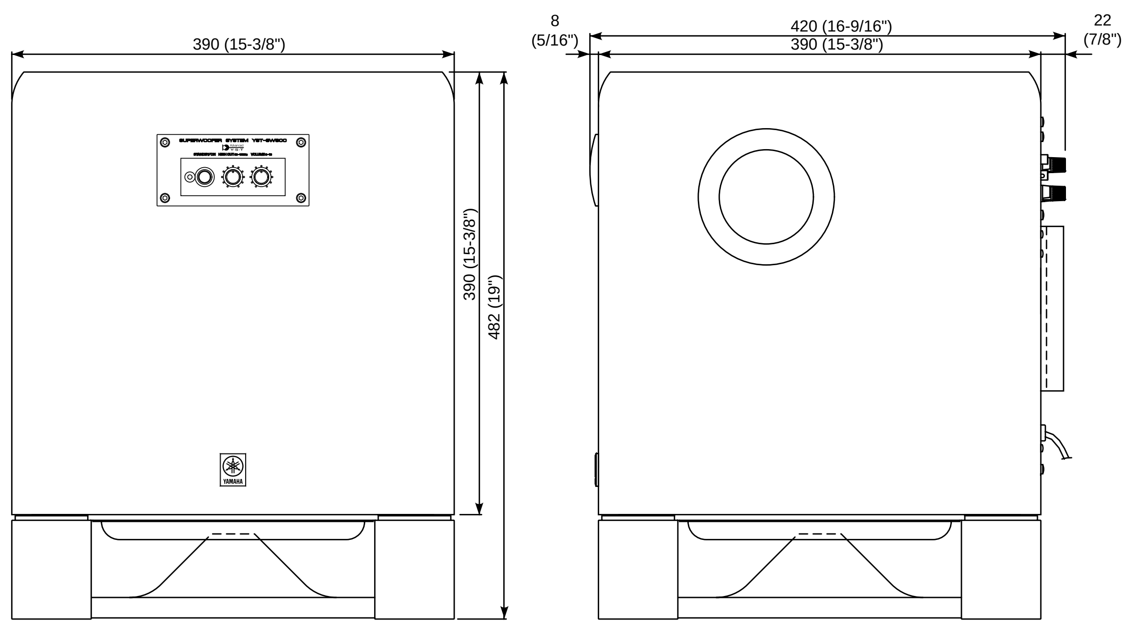
Bond application diagram (Fig. 4)



Glue List

Place	Name
Cord stopper	5 minute epoxy or 2051(Revertex Finewaters SDN.BHD.) or VYLOK 917DH (National Starch & Chemical (M) SDM.BHD.)
Power switch	5 minute epoxy or Diabond 1620B

● Dimensions



Units : mm (inch)

■ REPAIR PROCEDURES

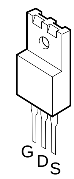
It is recommended to disconnect the SW power supply section and the power amplifier because it is highly possible that the SW power supply section has also broken down due to the overload caused by breakdown in the power amplifier.

Repair Procedure

1) Remove CB201, CB202 and CB205. (Power (1) P.C.B.)
Then the power supply circuit and the power amplifier circuit will be disconnected.

2) Repair the power amplifier as described below. (Main (1) P.C.B.)
Replace the defective parts.
Whether the major parts are defective or not can be checked as follows.

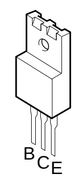
FET



Remove 3 screws fixing the heat sink to the rear panel and 4 screws fixing the support P.C.B. to the rear panel.

FET (Q16~19, Q22~24): Measure the resistance value between GATE and SOURCE to determine whether a failure exists or not.
If the measured resistance value is close to 0Ω, a failure exists.
If the measured resistance value is close to the value of the resistor connected between GATE and SOURCE, no failure exists.

TR



Remove 3 screws fixing the Main (1) P.C.B. to the support P.C.B.

TR (Q1~4): Check DIODE characteristics between BASE and EMITTER or between BASE and COLLECTOR to determine whether a failure exists or not.

Check the operation as follows.

a. Prepare a stabilized DC power source equipped with +30V and -30V outputs.
b. Connect +B, -B and GND output terminals of the stabilized power source to +B, -B and GND lines of the power amplifier.
c. Connect the terminal of the oscilloscope to the circuit between ① in the figure and GND.
d. Remove CB1. (Main (2) P.C.B.)
e. Connect the output of the signal generator to the circuit between the lead on the (-) side of C1 and GND.
f. Set the frequency of the signal generator to the 100Hz sine wave and the output level to the minimum level.
g. Turn on the stabilized DC power source.
h. Raise the output level of the signal generator gradually and check the output waveform on the oscilloscope.
i. If nothing abnormal is found with the waveform until the output level reaches 40Vp-p, the check result is OK.

After operation check
Connect CB1.

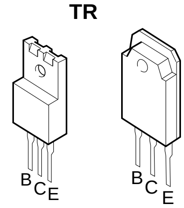
3) Repair the SW power supply section as follows. (Power (1) P.C.B.)
Follow the instruction described below to avoid any danger.
High voltage maintained in C209 and C210 even after the power is turned off is dangerous. It is necessary to force this electric charge to be discharged before starting the repair work.
For such forced discharge, connect a resistance of approximately 100Ω/5W to each of both terminals of the capacitor. Then check to make sure that the voltage between the capacitor terminals is 0V.

Replace the defective parts.
Whether the major parts are defective or not can be checked as follows.

TR (Q202~205): It is highly possible that a failure occurs due to a short between COLLECTOR and EMITTER.

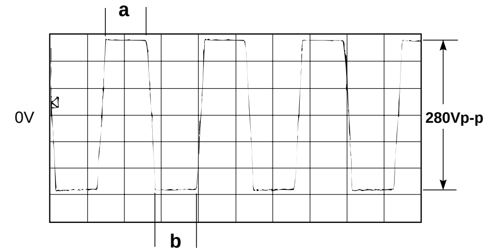
R216, R217: It is highly possible that a failure occurs due to an open circuit.

TR



Check the operation and make adjustment as follows.

a. Connect CB205.
b. Connect the probe of the oscilloscope between TP201 and TP202.
c. Turn on the power switch and the STANDBY/ON switch on the front panel.
d. Check the waveform on the oscilloscope and adjust VR201 so that a = b is obtained.
   Permissible range: a/b = 1.0 ± 0.1



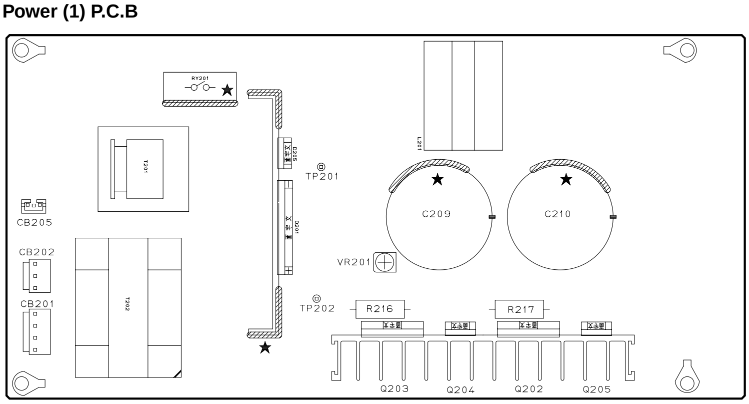
V : 50V/div   H : 10 µsec/div
AC range   1 : 1 probe

CAUTION

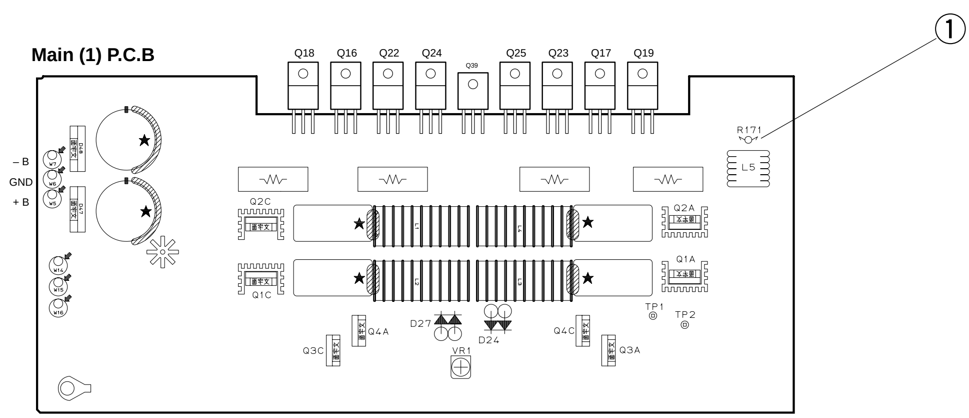
Electric potential is always applied to the ground side of the oscilloscope.
Be careful so that no other part comes in contact with it.

Caution for operation check of the SW power supply section and the power amplifier
As a high voltage is applied to the SW power supply section and the power amplifier, be careful not to receive an electric shock.

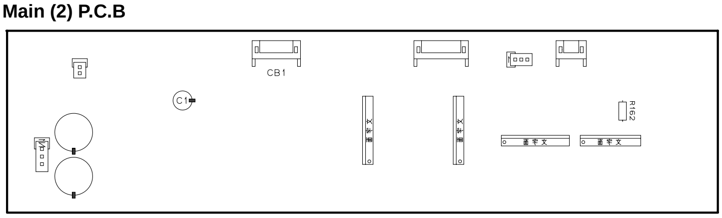
Power (1) P.C.B



Main (1) P.C.B



Main (2) P.C.B



■ ADJUSTMENTS

● Confirmation of Power Amp operation

For the power amplifier which has been repaired, it is absolutely necessary to confirm that a correct waveform is obtained at points indicated by A and B in the schematic diagram according to the following procedure.

Devices required

Signal generator (100Hz sine wave)
8Ω or 6Ω load resistor
Oscilloscope (dual trace type)

Connection

1) Connect the output signal from the signal generator to the input terminal of YST-SW800.
2) Disconnect the connector terminal connected to the speaker unit and reconnect it to the load resistor.
3) Connect the HOT side of the oscilloscope CH1 probe to the point A or B indicated in the figure and the GND side to the GND of the main unit.
4) Connect the oscilloscope CH2 input to the red side of the connector cable, which is connected with the load resistor.
At this time, the GND terminal of CH2 must be left unconnected.

Setting

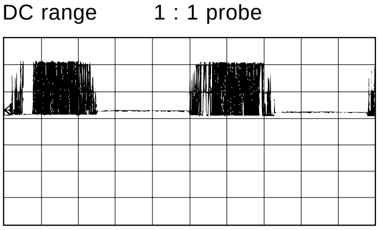
1) Set the signal generator to the sine wave, 100Hz and minimum output level settings.
2) Set the volume of YST-SW800 to the minimum position.
3) Turn on the power to YST-SW800.
4) Adjust the output level of the signal generator and the volume of YST-SW800 so that the output level observed at oscilloscope CH2 is 70Vp-p.

Waveform observation

With the settings made as described above, observe the waveform obtained at CH1 for judgment.

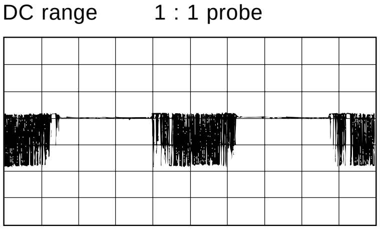
Normal

Point A (Cathode of D27)
V : 50V/div H : 2 msec/div
DC range 1 : 1 probe

0V


Abnormal
+B or GND level
Becomes constant

Point B (Anode of D24)
V : 50V/div H : 2 msec/div
DC range 1 : 1 probe

0V


Abnormal
-B or GND level
Becomes constant

● Idling Adjustment

To stabilize operation of the amplifier, turn ON the power with no input signal and wait for 1 or 2 minutes in non loaded condition before the adjustment.
Adjust VR1 so that the voltage between terminals TP1 and TP2 is DC 50mV to 250mV.

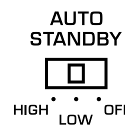
● Confirmation of AUTO STANDBY operation

Setting

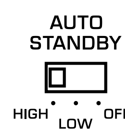
1) Turn off the power switch.
2) In order to shorten the time required for operation check; connect a 10kΩ resistor at both ends of R162 on the MAIN (2) P.C.B.
3) Connect the output signal from the signal generator to the L/MONO terminal of YST-SW800.
4) Set the signal generator for the sine wave of 100Hz, 8mV.
5) Turn on the power switch.

Confirmation

1) Set the AUTO STANDBY switch to the LOW position.



2) Turn on the STANDBY/ON switch.
The display LED lights up (green) and its color changes to red after 5 to 10 seconds.
3) Turn off the STANDBY/ON switch.
The display LED goes off.
4) Set the AUTO STANDBY switch to the HIGH position.

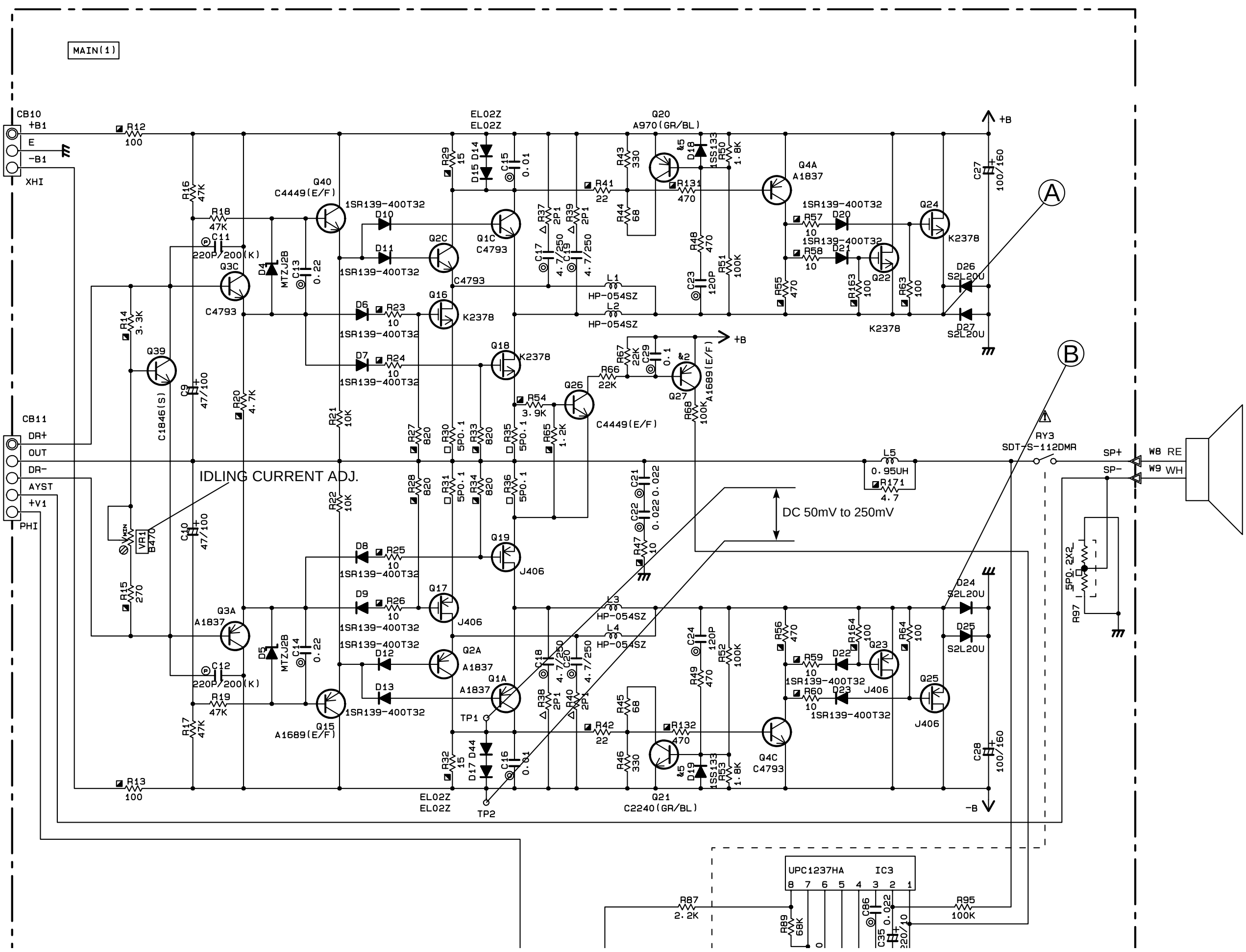


5) Turn on the STANDBY/ON switch.
The display LED lights up (green) and its color remains unchanged even after time have elapsed.
6) Turn off the STANDBY/ON switch.
The display LED goes off.

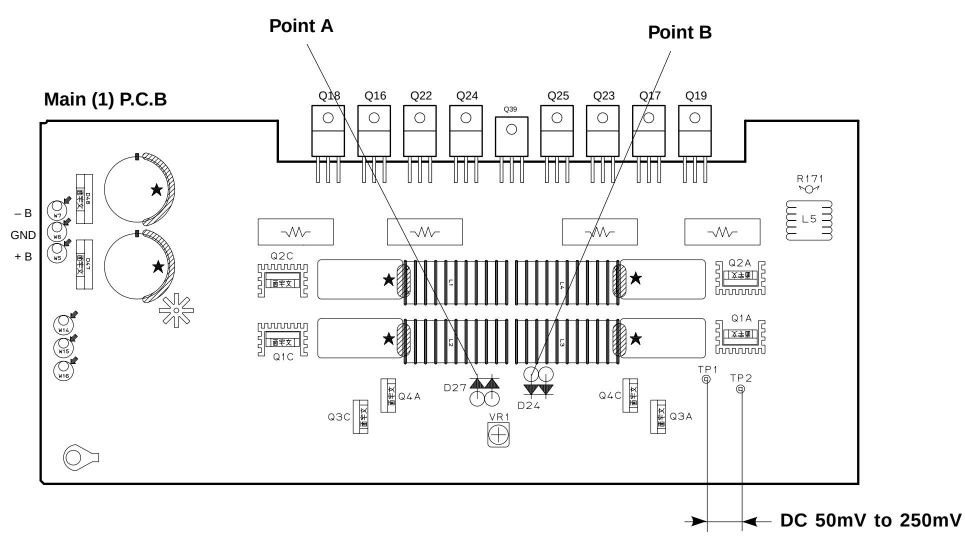
After confirmation

1) Turn off the power switch.
2) Disconnect the 10kΩ resistor connected to both ends of R162.

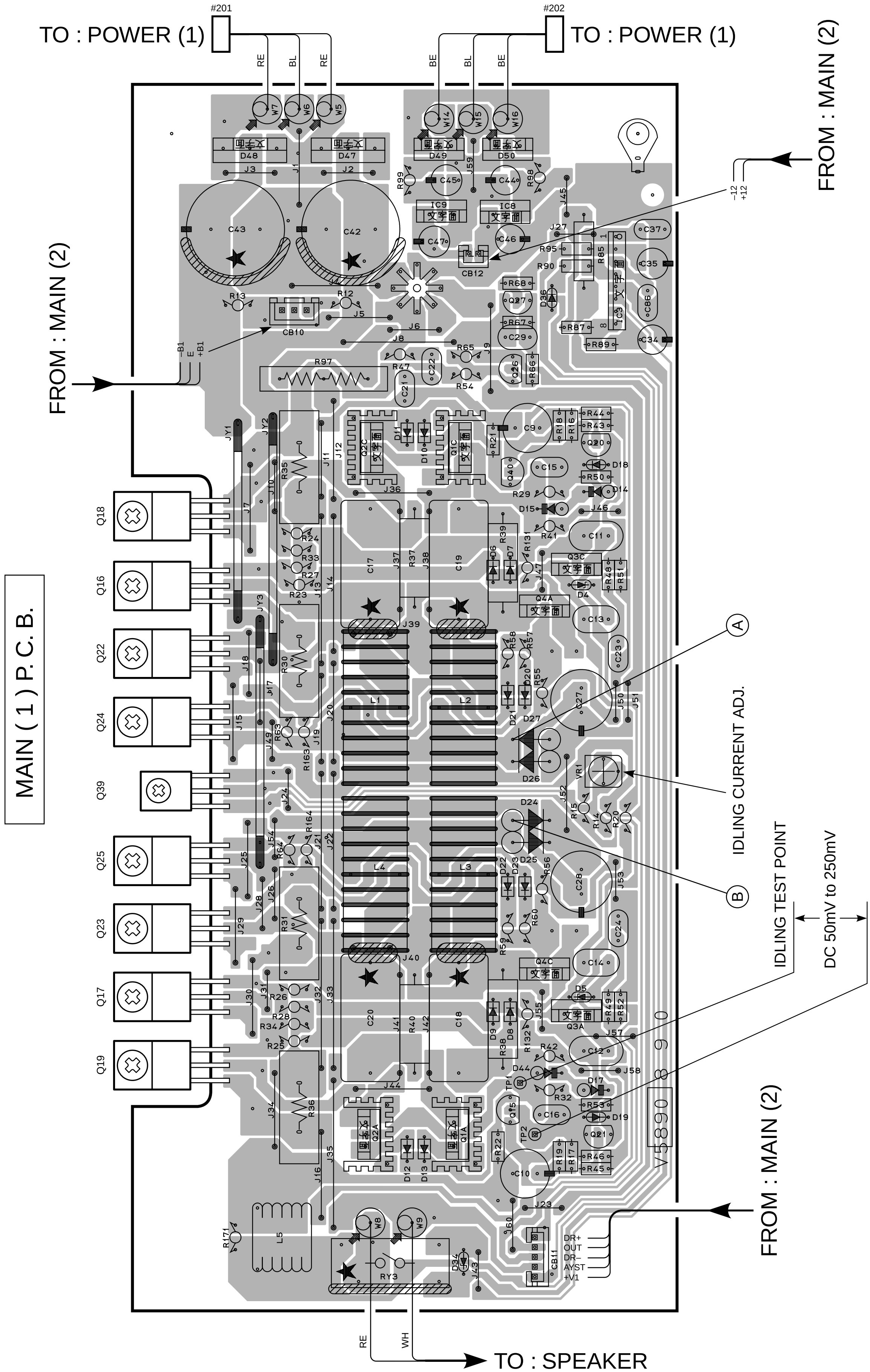
● Schematic Diagram



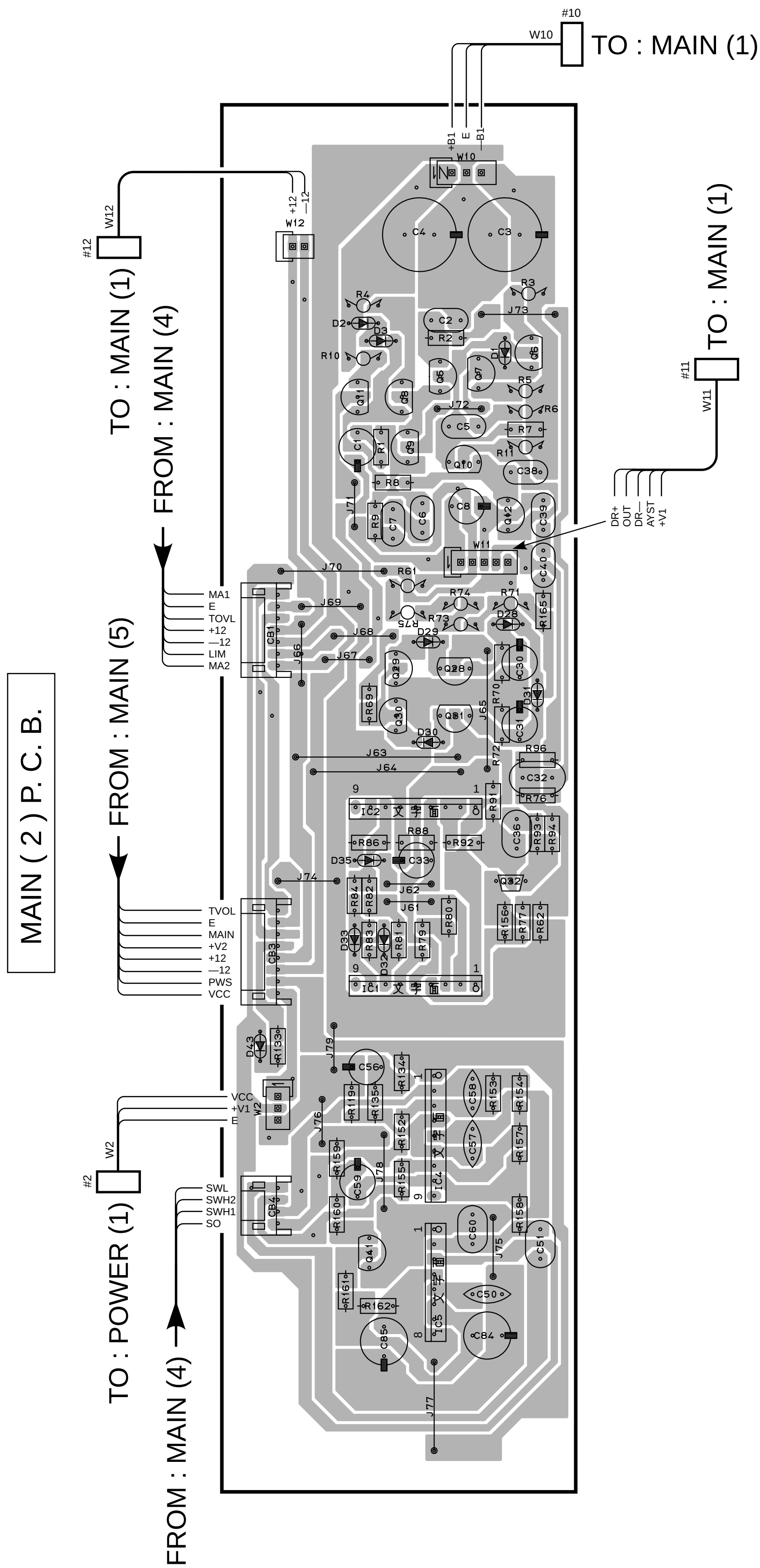
● Test Points



■ PRINTED CIRCUIT BOARD (Foil side)

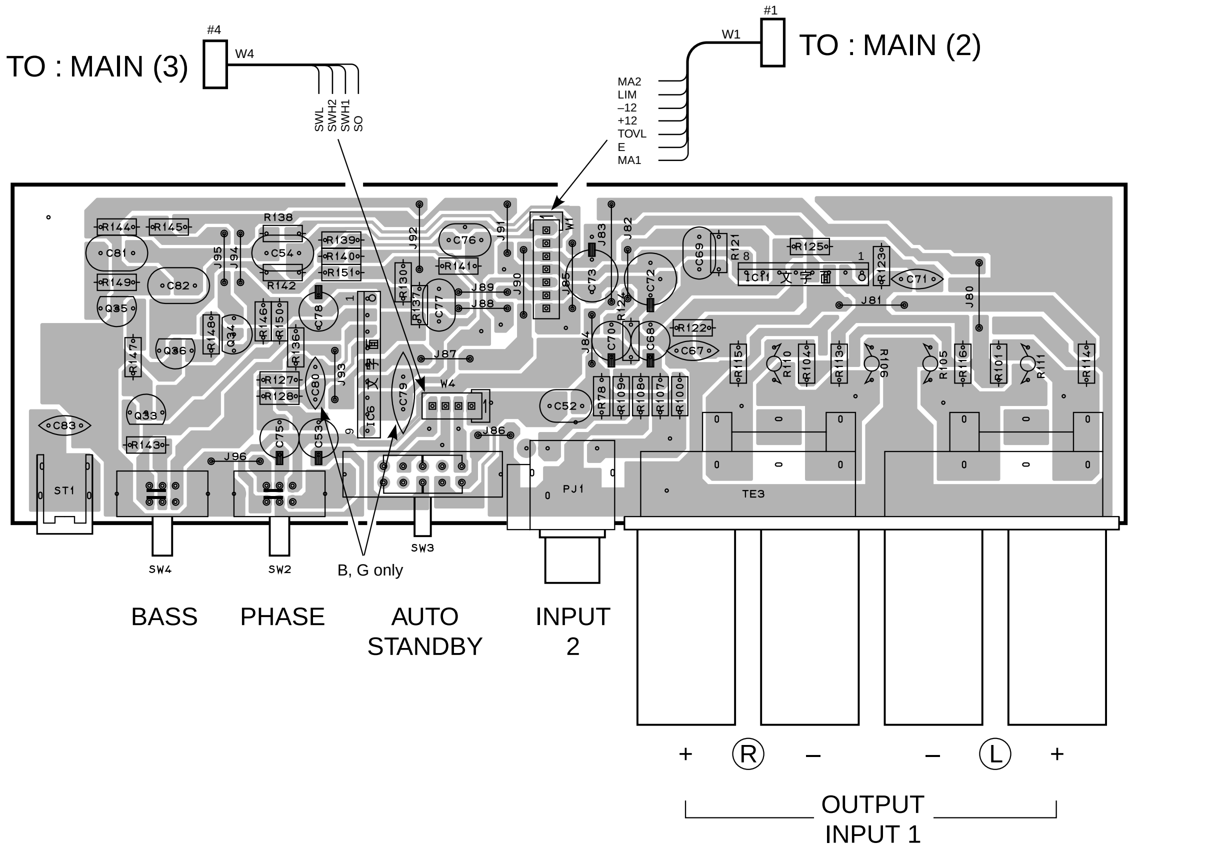


■ PRINTED CIRCUIT BOARD (Foil side)

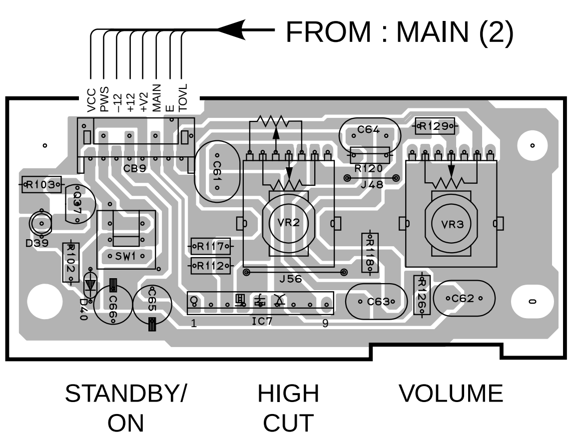


■ PRINTED CIRCUIT BOARD (Foil side)

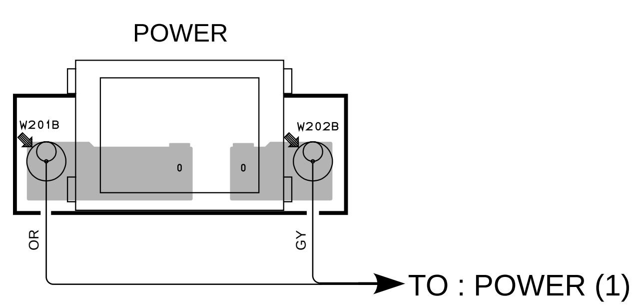
MAIN (4) P. C. B.



MAIN (5) P. C. B.



POWER (2) P. C. B.



1

■ PRINTED CIRCUIT BOARD (Foil side)

POWER (1) P. C. B.

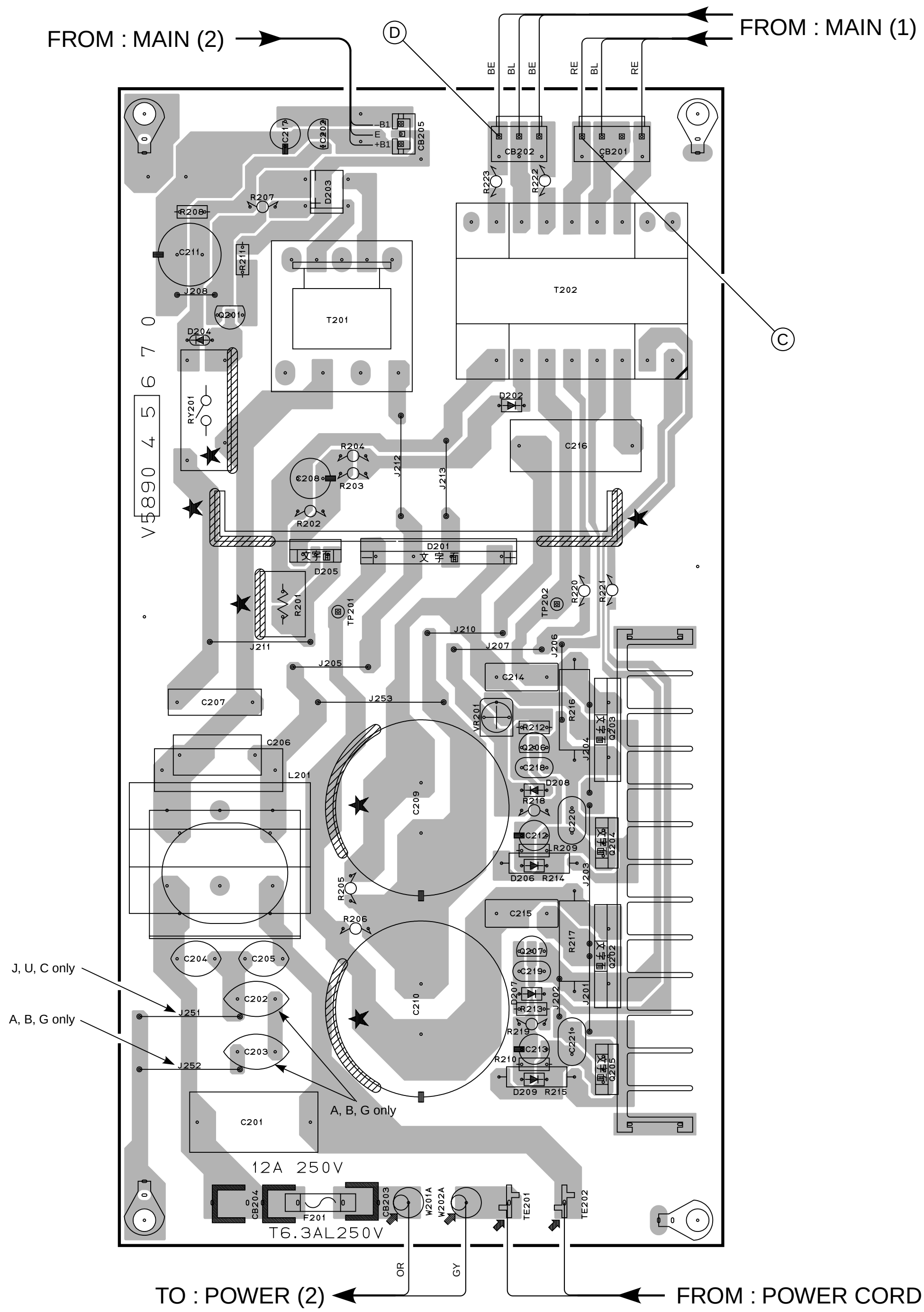
2

3

4

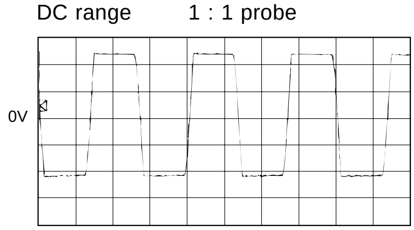
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6

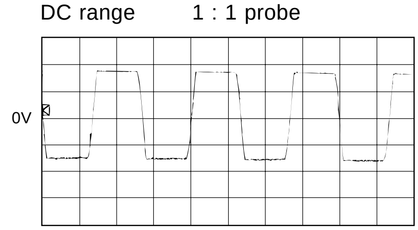


7

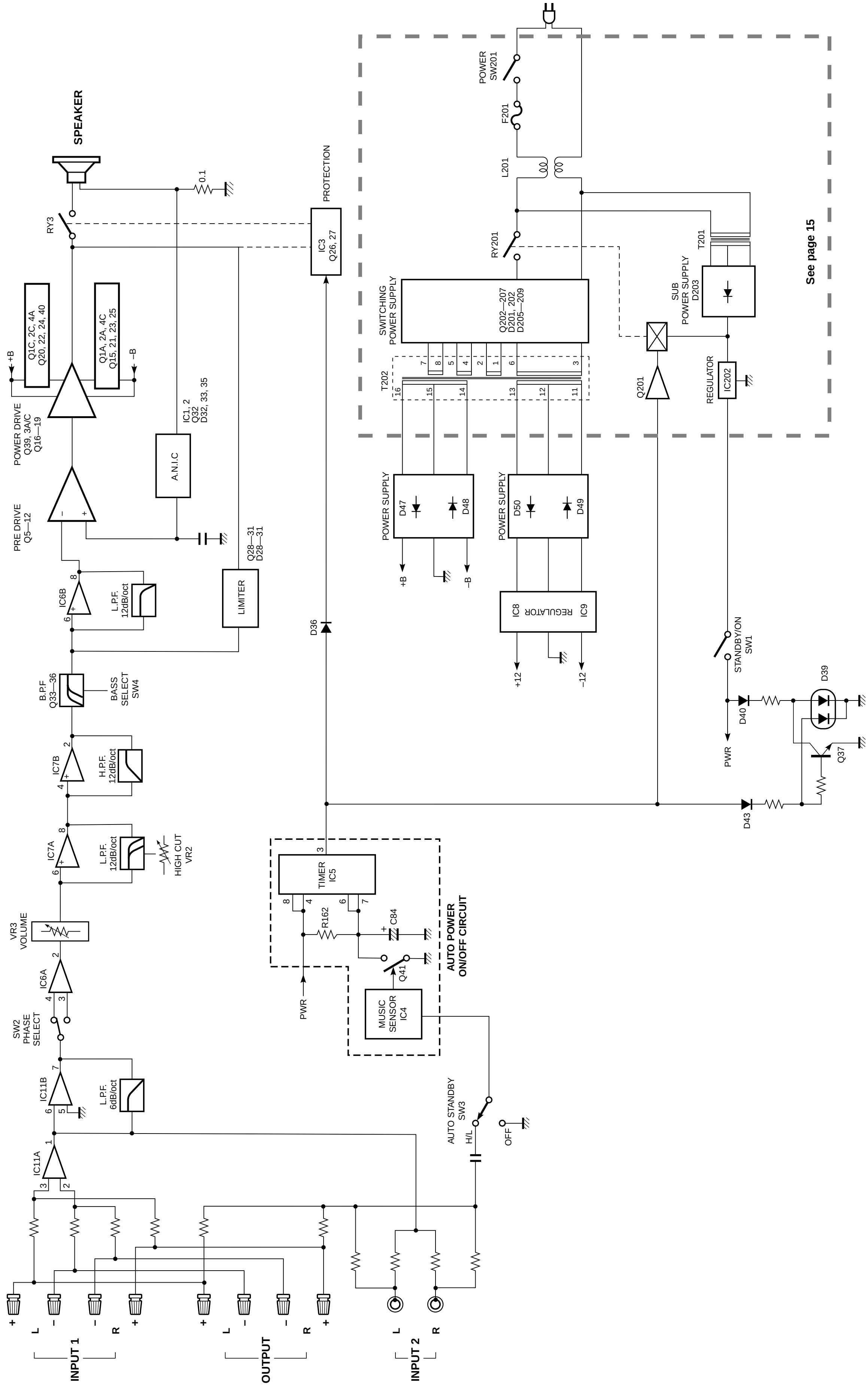
Point C (Pin 1 of CB201)
V : 50V/div H : 10 µsec/div
DC range 1 : 1 probe



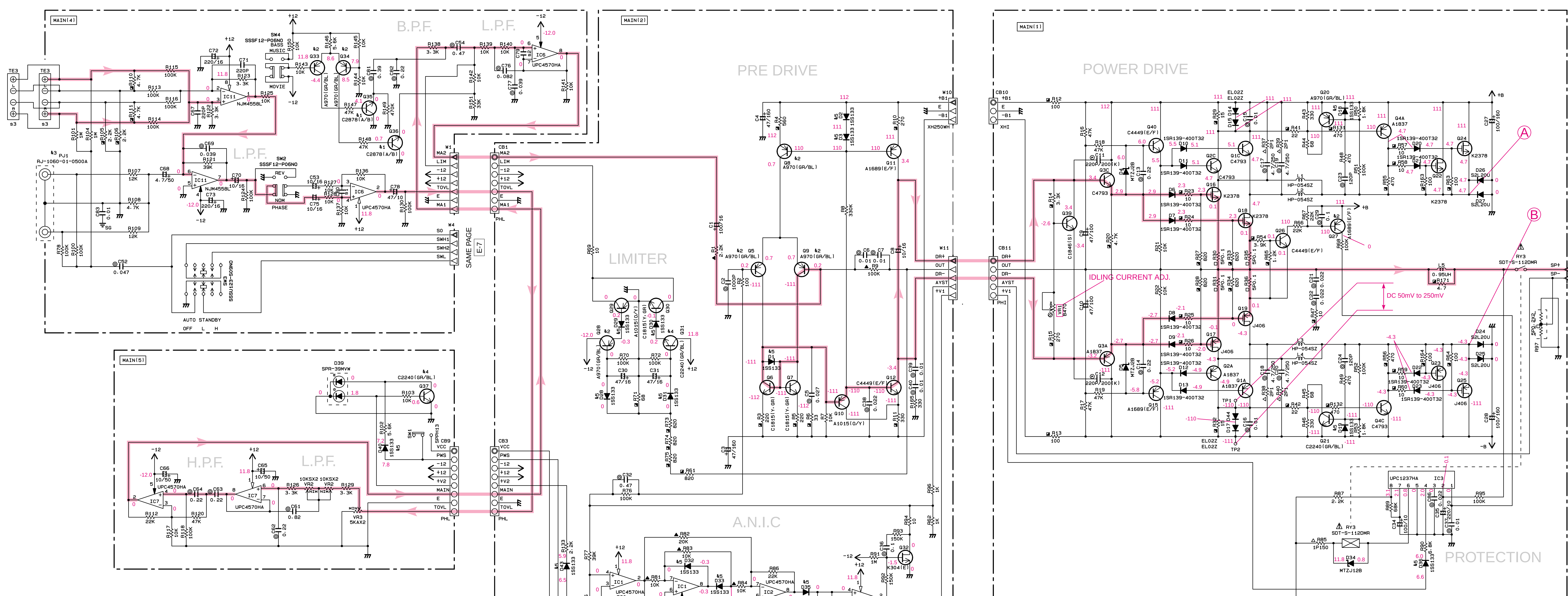
Point D (Pin 1 of CB202)
V : 10V/div H : 10 µsec/div
DC range 1 : 1 probe

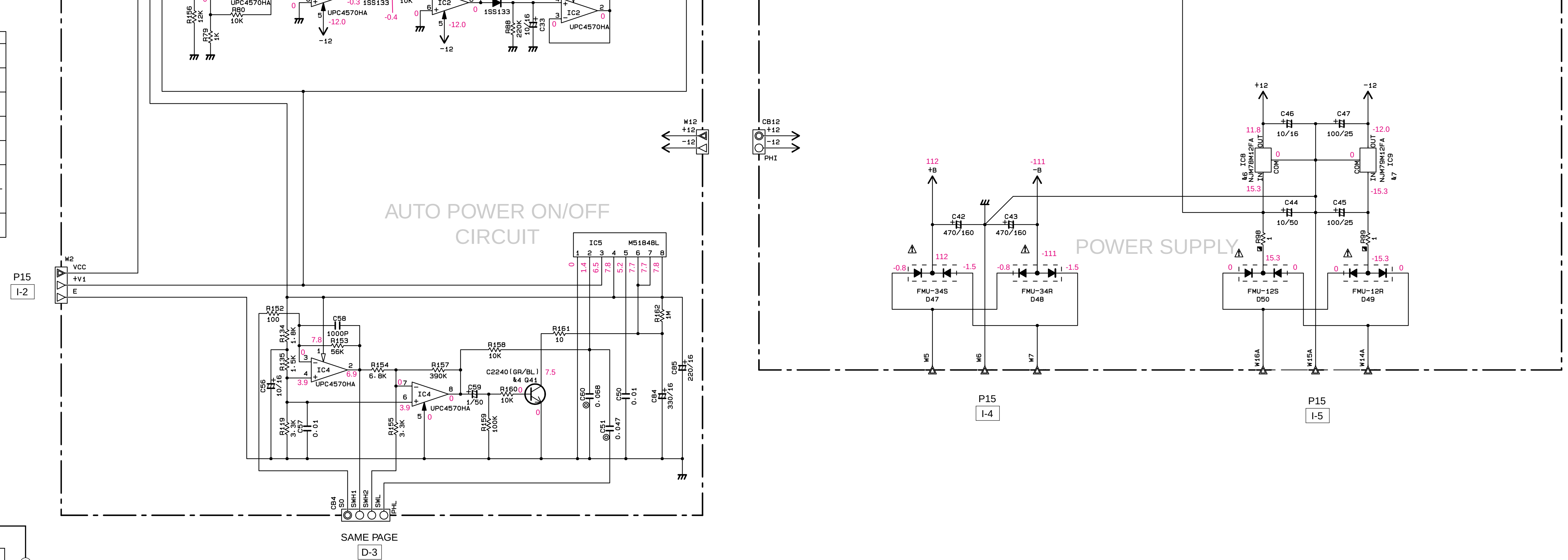


■ BLOCK DIAGRAM



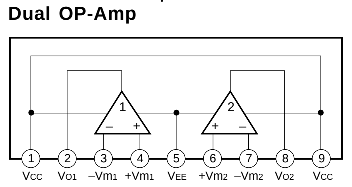
■ SCHEMATIC DIAGRAM



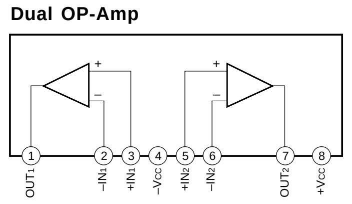


P15
I-2

IC1, 2, 4, 6, 7 : µPC4570HA
Dual OP-Amp



IC11 : NJM4558L
Dual OP-Amp



Interchangeable Parts at Manufacture-Stage

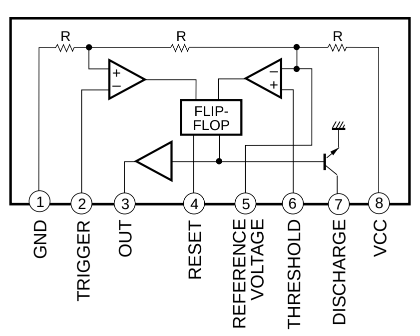
Mark	Reference Parts Number	Parts Name
&1	Q35, 36	C2878(A/B) C3792
&2	Q5, 8, 9, 20, 28, 33, 34	A970(GR/BL) A1207(S/T)
&3	PJ1	RJ-1060-01-0500A LPR6520-C615
&4	Q21, 31, 37, 41	C2240(GR/BL) C2909(S/T)
&5	D1-3, 18, 19, 28-33, 35, 36 D40, 43	1SS133 HSS104TD
&6	IC8	NJM78M12FA AN78M12F
&7	IC9	NJM79M12FA AN79M12F
&8		

CIRCUIT CHANGES BY MARKET.

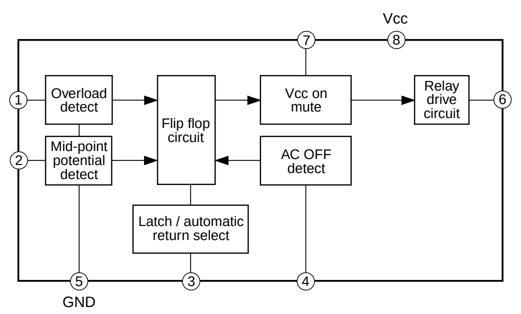
	LOCATION	DESTINATION	
		J, U, C, A	B, G
s1	C80	X	22PCH
s2	C79	X	220PCH
s3	TE3	VV00310 VC31370	V481140
s4			
s5			

X : NOT USED

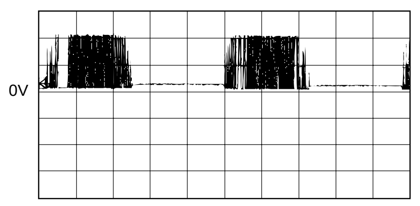
IC5 : M51848L
CR Timer



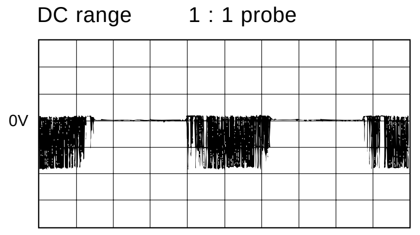
IC3 : µPC1237HA
Protector IC for Power Amplifier



Point A (Cathode of D27)
V : 50V/div H : 2 msec/div
DC range 1 : 1 probe



Point B (Anode of D24)
V : 50V/div H : 2 msec/div
DC range 1 : 1 probe



RESISTOR

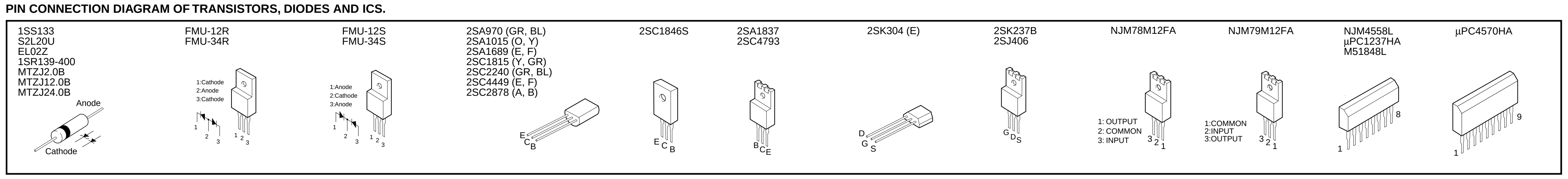
REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
⊘ (square)	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
△ (hatched)	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
◪	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊘	SEMI VARIABLE RESISTOR
▤	CHIP RESISTOR

CAPACITOR

REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	(polarized symbol)
⊗	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	(non-polarized symbol)
◉	CERAMIC TUBULAR CAPACITOR	
◎	POLYESTER FILM CAPACITOR	
○	POLYSTYRENE FILM CAPACITOR	
⦶	MICA CAPACITOR	
Ⓟ	POLYPROPYLENE FILM CAPACITOR	
⊜	SEMICONDUCTIVE CERAMIC CAPACITOR	

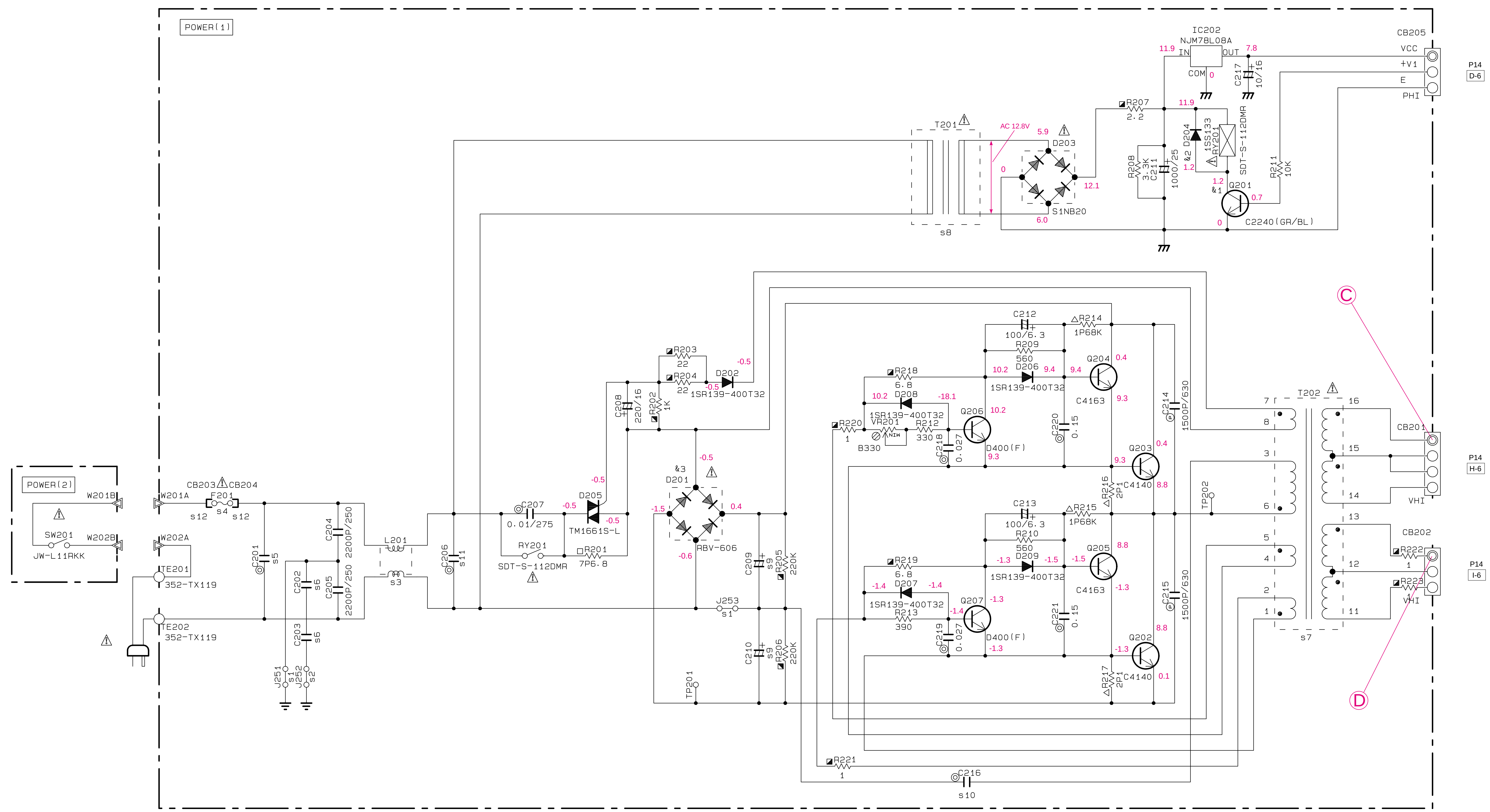
NOTICE (model)
(J)····· JAPANESE
(U)····· U.S.A
(C)····· CANADIAN
(R)····· GENERAL
(A)····· AUSTRALIAN
(B)····· BRITISH
(G)····· EUROPEAN
(T)····· CHINA
(L)····· SINGAPORE

PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICS.



* All voltage are measured with a 10MΩ/V DC electric volt meter.
* Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

■ SCHEMATIC DIAGRAM



CIRCUIT CHANGES BY MARKET.

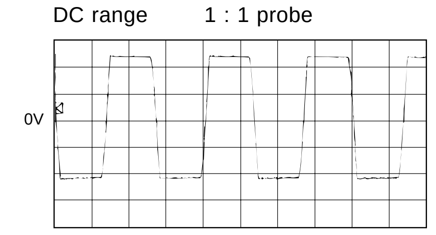
	LOCATION	DESTINATION			
		J	U, C	A	B, G
s1	J251, 253	O	O	X	X
s2	J252	X	X	O	O
s3	L201	VP23430	VP23430	VN39810	VN39810
s4	F201	12A250V	12A250V	T6.3AL250V	T6.3AL250V
s5	C201	0.47/250	0.47/250	1/250	1/250
s6	C202, 203	X	X	4700P/250	4700P/250
s7	T202	XY912	XY913	XY914	XY915
s8	T201	XV442	XV443	XV445	XV445
s9	C209, 210	2200/180	1800/200	1200/250	1200/250
s10	C216	3.3/250	2.2/250	2.2/250	2.2/250
s11	C206	0.22/250	0.22/250	0.47/250	0.47/250
s12	CB203, 204	V657740	V657740	VT65820	VT65820
s13					
s14					

X : NOT USED
O : USED

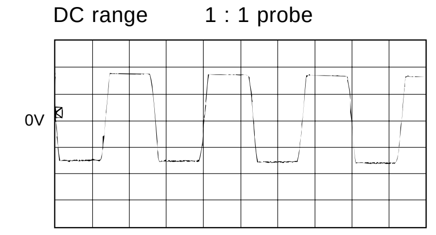
Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
&1	Q201	C2240(GR/BL) C2909(S/T)
&2	D204	1SS133 HSS104TD
&3	D201	RBV-606 D5SBA60

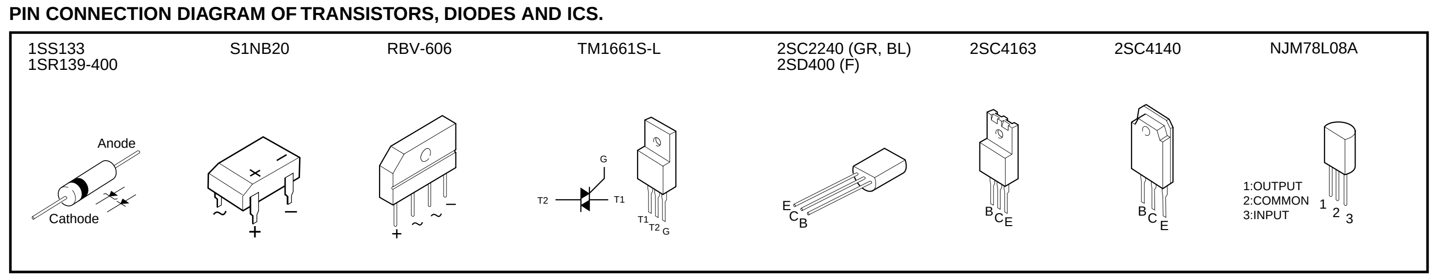
Point C (Pin 1 of CB201)
V : 50V/div H : 10 µsec/div
DC range 1 : 1 probe



Point D (Pin 1 of CB202)
V : 10V/div H : 10 µsec/div
DC range 1 : 1 probe



PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICS.



* All voltage are measured with a 10MΩ/V DC electric volt meter.
* Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

PARTS LIST

■ ELECTRICAL PARTS

■ **WARNING**
Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.

● Carbon resistors (1/6W or 1/4W) are not included in the ELECTRICAL PARTS List. For the part Nos. of the carbon resistors refer to the last page.

ABBREVIATIONS IN THIS LIST ARE AS FOLLOWS :

C.A.EL.CHP	: CHIP ALUMI. ELECTROLYTIC CAP
C.CE	: CERAMIC CAP
C.CE.ARRAY	: CERAMIC CAP ARRAY
C.CE.CHP	: CHIP CERAMIC CAP
C.CE.ML	: MULTILAYER CERAMIC CAP
C.CE.M.CHP	: CHIP MULTILAYER CERAMIC CAP
C.CE.SAFTY	: RECOGNIZED CERAMIC CAP
C.CE.TUBLR	: CERAMIC TUBULAR CAP
C.CE.SMI	: SEMI CONDUCTIVE CERAMIC CAP
C.EL	: ELECTROLYTIC CAP
C.MICA	: MICA CAP
C.ML.FLM	: MULTILAYER FILM CAP
C.MP	: METALLIZED PAPER CAP
C.MYLAR	: MYLAR FILM CAP
C.MYLAR.ML	: MULTILAYER MYLAR FILM CAP
C.PAPER	: PAPER CAPACITOR
C.PLS	: POLYSTYRENE FILM CAP
C.POL	: POLYESTER FILM CAP
C.POLY	: POLYETHYLENE FILM CAP
C.PP	: POLYPROPYLENE FILM CAP
C.TNTL	: TANTALUM CAP
C.TNTL.CHP	: CHIP TANTALUM CAP
C.TRIM	: TRIMMER CAP
CN	: CONNECTOR
CN.BS.PIN	: CONNECTOR, BASE PIN
CN.CANNON	: CONNECTOR, CANNON
CN.DIN	: CONNECTOR, DIN
CN.FLAT	: CONNECTOR, FLAT CABLE
CN.POST	: CONNECTOR, BASE POST
COIL.MX.AM	: COIL, AM MIX
COIL.AT.FM	: COIL, FM ANTENNA
COIL.DT.FM	: COIL, FM DETECT
COIL.MX.FM	: COIL, FM MIX
COIL.OUTPT	: OUTPUT COIL
DIOD.ARRAY	: DIODE ARRAY
DIODE.BRG	: DIODE BRIDGE
DIODE.CHP	: CHIP DIODE
DIODE.VAR	: VARACTOR DIODE
DIOD.Z.CHP	: CHIP ZENER DIODE
DIODE.ZENR	: ZENER DIODE
DSCR.CE	: CERAMIC DISCRIMINATOR
FER.BEAD	: FERRITE BEADS
FER.CORE	: FERRITE CORE
FET.CHP	: CHIP FET
FL.DSPLY	: FLUORESCENT DISPLAY
FLTR.CE	: CERAMIC FILTER
FLTR.COMB	: COMB FILTER MODULE
FLTR.LC.RF	: LC FILTER ,EMI
GND.MTL	: GROUND PLATE
GND.TERM	: GROUND TERMINAL
HOLDER.FUS	: FUSE HOLDER
IC.PRTCT	: IC PROTECTOR
JUMPER.CN	: JUMPER CONNECTOR
JUMPER.TST	: JUMPER, TEST POINT
L.DTCT	: LIGHT DETECTING MODULE
L.EMIT	: LIGHT EMITTING MODULE
LED.DSPLY	: LED DISPLAY
LED.INFRD	: LED, INFRARED
MODUL.RF	: MODULATOR, RF
PHOT.CPL	: PHOTO COUPLER
PHOT.INTR	: PHOTO INTERRUPTER
PHOT.RFLCT	: PHOTO REFLECTOR
PIN.TEST	: PIN, TEST POINT
PLST.RIVET	: PLASTIC RIVET
R.ARRAY	: RESISTOR ARRAY
R.CAR	: CARBON RESISTOR
R.CAR.CHP	: CHIP RESISTOR
R.CAR.FP	: FLAME PROOF CARBON RESISTOR
R.FUS	: FUSABLE RESISTOR
R.MTL.CHP	: CHIP METAL FILM RESISTOR
R.MTL.FLM	: METAL FILM RESISTOR
R.MTL.OXD	: METAL OXIDE FILM RESISTOR
R.MTL.PLAT	: METAL PLATE RESISTOR
RSNR.CE	: CERAMIC RESONATOR
RSNR.CRYS	: CRYSTAL RESONATOR
R.TW.CEM	: TWIN CEMENT FIXED RESISTOR
R.WW	: WIRE WOUND RESISTOR
SCR.BND.HD	: BIND HEAD B-TITE SCREW
SCR.BW.HD	: BW HEAD TAPPING SCREW
SCR.CUP	: CUP TITE SCREW
SCR.TERM	: SCREW TERMINAL
SCR.TR	: SCREW, TRANSISTOR
SUPRT.PCB	: SUPPORT, P.C.B.
SURG.PRTCT	: SURGE PROTECTOR
SW.TACT	: TACT SWITCH
SW.LEAF	: LEAF SWITCH
SW.LEVER	: LEVER SWITCH
SW.MICRO	: MICRO SWITCH
SW.PUSH	: PUSH SWITCH
SW.RT.ENC	: ROTARY ENCODER
SW.RT.MTR	: ROTARY SWITCH WITH MOTOR
SW.RT	: ROTARY SWITCH
SW.SLIDE	: SLIDE SWITCH
TERM.SP	: SPEAKER TERMINAL
TERM.WRAP	: WRAPPING TERMINAL
THRMST.CHP	: CHIP THERMISTOR
TR.CHP	: CHIP TRANSISTOR
TR.DGT	: DIGITAL TRANSISTOR
TR.DGT.CHP	: CHIP DIGITAL TRANSISTOR
TRANS	: TRANSFORMER
TRANS.PULS	: PULSE TRANSFORMER
TRANS.PWR	: POWER TRANSFORMER ASS'y
TUNER.AM	: TUNER PACK, AM
TUNER.FM	: TUNER PACK, FM
TUNER.PK	: FRONT-END TUNER PACK
VR	: ROTARY POTENTIOMETER
VR.MTR	: POTENTIOMETER WITH MOTOR
VR.SW	: POTENTIOMETER WITH ROTARY SW
VR.SLIDE	: SLIDE POTENTIOMETER
VR.TRIM	: TRIMMER POTENTIOMETER

Note) Those parts marked with "#" are not included in the P.C.B. ass'y.

P.C.B. MAIN

	Schm Ref.	PART NO.	Description		
*		V5890800	P.C.B.	MAIN(UCA)	
*		V5890900	P.C.B.	MAIN(BG)	
	CB1	VB858600	CN.BS.PIN	7P	
	CB3	VB858700	CN.BS.PIN	8P	
	CB4	VB858300	CN.BS.PIN	4P	
	CB9	VB858700	CN.BS.PIN	8P	
	CB10	VL844700	CN.BS.PIN	3P	
	CB11	VB390100	CN.BS.PIN	5P	
	CB12	VB389800	CN.BS.PIN	2P	
*	C1	VT721000	C.EL	100uF	16V
	C2	UA653100	C.MYLAR	1000pF	50V
	C3	V5877800	C.EL	47uF	160V
	C4	V5877800	C.EL	47uF	160V
	C5	UA654270	C.MYLAR	0.027uF	50V
	C6	UA654100	C.MYLAR	0.01uF	50V
	C7	UA654100	C.MYLAR	0.01uF	50V
	C8	VT720600	C.EL	10uF	16V
	C9	VT727900	C.EL	47uF	100V
	C10	VT727900	C.EL	47uF	100V
	C11	VK534000	C.PP	220pF	200V
	C12	VK534000	C.PP	220pF	200V
	C13	UA655220	C.MYLAR	0.22uF	50V
	C14	UA655220	C.MYLAR	0.22uF	50V
	C15	UA654100	C.MYLAR	0.01uF	50V
	C16	UA654100	C.MYLAR	0.01uF	50V
	C17	V5058000	C.MYLAR	4.7uF	250V
	C18	V5058000	C.MYLAR	4.7uF	250V
	C19	V5058000	C.MYLAR	4.7uF	250V
	C20	V5058000	C.MYLAR	4.7uF	250V
	C21	UA654220	C.MYLAR	0.022uF	50V
	C22	UA654220	C.MYLAR	0.022uF	50V
	C23	UA652120	C.MYLAR	120pF	50V
	C24	UA652120	C.MYLAR	120pF	50V
	C27	V5877900	C.EL	100uF	160V
	C28	V5877900	C.EL	100uF	160V
	C29	UA655100	C.MYLAR	0.1uF	50V
*	C30	VT720900	C.EL	47uF	16V
*	C31	VT720900	C.EL	47uF	16V
	C32	UA655470	C.MYLAR	0.47uF	50V
*	C33	VT720600	C.EL	10uF	16V
*	C34	VT719700	C.EL	100uF	10V
*	C35	VT719800	C.EL	220uF	10V
	C36	UA655100	C.MYLAR	0.1uF	50V
	C37	UA654100	C.MYLAR	0.01uF	50V
	C38	UA654220	C.MYLAR	0.022uF	50V
	C39	UA654100	C.MYLAR	0.01uF	50V
	C40	UA654100	C.MYLAR	0.01uF	50V
	C42	V5872500	C.EL	470uF	160V
	C43	V5872500	C.EL	470uF	160V
	C44	VT724900	C.EL	10uF	50V
	C45	VT722300	C.EL	100uF	25V
*	C46	VT720600	C.EL	10uF	16V
*	C47	VT722300	C.EL	100uF	25V

* New Parts

	Schm Ref.	PART NO.	Description		
	C50	FG644100	C.CE	0.01uF	50V
	C51	UA654470	C.MYLAR	0.047uF	50V
	C52	UA654470	C.MYLAR	0.047uF	50V
*	C53	VT720600	C.EL	10uF	16V
	C54	UA655470	C.MYLAR	0.47uF	50V
*	C56	VT720600	C.EL	10uF	16V
	C57	FG644100	C.CE	0.01uF	50V
	C58	FG613100	C.CE	1000pF	50V
*	C59	VT724500	C.EL	1uF	50V
	C60	UA654680	C.MYLAR	0.068uF	50V
	C61	UA655820	C.MYLAR	0.82uF	50V
	C62	UA655220	C.MYLAR	0.22uF	50V
	C63	UA655220	C.MYLAR	0.22uF	50V
	C64	UA655220	C.MYLAR	0.22uF	50V
*	C65	VT724900	C.EL	10uF	50V
	C66	VT724900	C.EL	10uF	50V
	C67	FG612220	C.CE	220pF	50V
*	C68	VT724800	C.EL	4.7uF	50V
	C69	UA654390	C.MYLAR	0.039uF	50V
*	C70	VT720600	C.EL	10uF	16V
	C71	FG612220	C.CE	220pF	50V
*	C72	VT721100	C.EL	220uF	25V
*	C73	VT721100	C.EL	220uF	25V
*	C75	VT720600	C.EL	10uF	16V
	C76	UA654820	C.MYLAR	0.082uF	50V
	C77	UA654390	C.MYLAR	0.039uF	50V
*	C78	VT719600	C.EL	47uF	10V
	C79	VA777700	C.CE	220pF	50V(BG)
	C80	VA761000	C.CE	22pF	50V(BG)
	C81	UA655390	C.MYLAR	0.39uF	50V
	C82	UA655220	C.MYLAR	0.22uF	50V
	C83	FG644100	C.CE	0.01uF	50V
*	C84	VT721200	C.EL	330uF	16V
*	C85	VT721100	C.EL	220uF	25V
	C86	UA654220	C.MYLAR	0.022uF	50V
	D1	iF004600	DIODE	1SS133	
	D2	iF004600	DIODE	1SS133	
	D3	iF004600	DIODE	1SS133	
	D4	VG435100	DIODE.ZENR	MTZJ2.0B	2.0V
	D5	VG435100	DIODE.ZENR	MTZJ2.0B	2.0V
	D6	VU264100	DIODE	1SR139-400	
	D7	VU264100	DIODE	1SR139-400	
	D8	VU264100	DIODE	1SR139-400	
	D9	VU264100	DIODE	1SR139-400	
	D10	VU264100	DIODE	1SR139-400	
	D11	VU264100	DIODE	1SR139-400	
	D12	VU264100	DIODE	1SR139-400	
	D13	VU264100	DIODE	1SR139-400	
*	D14	V6591600	DIODE	EL02Z	
*	D15	V6591600	DIODE	EL02Z	
*	D17	V6591600	DIODE	EL02Z	
	D18	iF004600	DIODE	1SS133	
	D19	iF004600	DIODE	1SS133	

* New Parts

P.C.B. MAIN

	Schm Ref.	PART NO.	Description	
	D20	VU264100	DIODE	1SR139-400
	D21	VU264100	DIODE	1SR139-400
	D22	VU264100	DIODE	1SR139-400
	D23	VU264100	DIODE	1SR139-400
	D24	VP779200	DIODE	S2L20U
	D25	VP779200	DIODE	S2L20U
	D26	VP779200	DIODE	S2L20U
	D27	VP779200	DIODE	S2L20U
	D28	iF004600	DIODE	1SS133
	D29	iF004600	DIODE	1SS133
	D30	iF004600	DIODE	1SS133
	D31	iF004600	DIODE	1SS133
	D32	iF004600	DIODE	1SS133
	D33	iF004600	DIODE	1SS133
	D34	VG440200	DIODE.ZENR	MTZJ12B 12V
	D35	iF004600	DIODE	1SS133
	D36	iF004600	DIODE	1SS133
*	D39	VS079300	LED	SPR-39MVW
	D40	iF004600	DIODE	1SS133
	D43	iF004600	DIODE	1SS133
*	D44	V6591600	DIODE	EL02Z
⚠	D47	V5877300	DIODE	FMU-34S
⚠	D48	V5877400	DIODE	FMU-34R
⚠*	D49	VN399400	DIODE	FMU-12R 5A 200V
⚠*	D50	VN399300	DIODE	FMU-12S 5A 200V
	IC1	XB247A00	IC	uPC4570HA
	IC2	XB247A00	IC	uPC4570HA
	IC3	XF663A00	IC	uPC1237HA
	IC4	XB247A00	IC	uPC4570HA
	IC5	XP741A00	IC	M51848L
	IC6	XB247A00	IC	uPC4570HA
	IC7	XB247A00	IC	uPC4570HA
	IC8	XJ602A00	IC	NJM78M12FA
	IC9	XD343A00	IC	NJM79M12FA
	IC11	XM922A00	IC	NJM4558L
	L1	V5058100	COIL	120uH
	L2	V5058100	COIL	120uH
	L3	V5058100	COIL	120uH
	L4	V5058100	COIL	120uH
	L5	VU038200	COIL	0.95uH
	PJ1	V6415800	JACK.PIN	2P RJ-1060-01-0500
	Q1	VQ116600	TR.PAIR	2SA1837/C4793 O,Y
	Q2	VQ116600	TR.PAIR	2SA1837/C4793 O,Y
	Q3	VQ116600	TR.PAIR	2SA1837/C4793 O,Y
	Q4	VQ116600	TR.PAIR	2SA1837/C4793 O,Y
	Q5	iA097030	TR	2SA970 GR,BL
	Q6	iC1815M0	TR	2SC1815 Y,GR
	Q7	iC1815M0	TR	2SC1815 Y,GR
	Q8	iA097030	TR	2SA970 GR,BL
	Q9	iA097030	TR	2SA970 GR,BL
	Q10	iA101590	TR	2SA1015 O,Y
	Q11	V5876800	TR	2SA1689 E,F
	Q12	V5876900	TR	2SC4449 E,F

* New Parts

	Schm Ref.	PART NO.	Description		
	Q15	V5876800	TR	2SA1689 E,F	
#	Q16	V5877200	FET	2SK2378	
#	Q17	V5877000	FET	2SJ406	
#	Q18	V5877200	FET	2SK2378	
#	Q19	V5877000	FET	2SJ406	
	Q20	iA097030	TR	2SA970 GR,BL	
	Q21	iC224030	TR	2SC2240 GR,BL	
#	Q22	V5877200	FET	2SK2378	
#	Q23	V5877000	FET	2SJ406	
#	Q24	V5877200	FET	2SK2378	
#	Q25	V5877000	FET	2SJ406	
	Q26	V5876900	TR	2SC4449 E,F	
	Q27	V5876800	TR	2SA1689 E,F	
	Q28	iA097030	TR	2SA970 GR,BL	
	Q29	iA101590	TR	2SA1015 O,Y	
	Q30	iC1815M0	TR	2SC1815 Y,GR	
	Q31	iC224030	TR	2SC2240 GR,BL	
	Q32	V3028000	FET	2SK304 E	
	Q33	iA097030	TR	2SA970 GR,BL	
	Q34	iA097030	TR	2SA970 GR,BL	
	Q35	iC287820	TR	2SC2878 A,B	
	Q36	iC287820	TR	2SC2878 A,B	
	Q37	iC224030	TR	2SC2240 GR,BL	
#	Q39	VC398100	TR	2SC1846 S	
	Q40	V5876900	TR	2SC4449 E,F	
	Q41	iC224030	TR	2SC2240 GR,BL	
	R1	VF459100	R.MTL.FLM	2.2KΩ	1/4W
	R3	HV755220	R.CAR.FP	220Ω	1/4W
	R4	HV755560	R.CAR.FP	560Ω	1/4W
	R5	HV755220	R.CAR.FP	220Ω	1/4W
	R6	HV754330	R.CAR.FP	33Ω	1/4W
	R9	VH009600	R.MTL.FLM	100KΩ	1/4W
	R10	HV755270	R.CAR.FP	270Ω	1/4W
	R11	HV755330	R.CAR.FP	330Ω	1/4W
	R12	HV755100	R.CAR.FP	100Ω	1/4W
	R13	HV755100	R.CAR.FP	100Ω	1/4W
	R14	HV756330	R.CAR.FP	3.3KΩ	1/4W
	R15	HV755270	R.CAR.FP	270Ω	1/4W
	R20	HV756470	R.CAR.FP	4.7KΩ	1/4W
	R23	HV754100	R.CAR.FP	10Ω	1/4W
	R24	HV754100	R.CAR.FP	10Ω	1/4W
	R25	HV754100	R.CAR.FP	10Ω	1/4W
	R26	HV754100	R.CAR.FP	10Ω	1/4W
	R27	HV755820	R.CAR.FP	820Ω	1/4W
	R28	HV755820	R.CAR.FP	820Ω	1/4W
	R29	HV754150	R.CAR.FP	15Ω	1/4W
	R30	V5875400	R.WW	0.1Ω	5W
	R31	V5875400	R.WW	0.1Ω	5W
	R32	HV754150	R.CAR.FP	15Ω	1/4W
	R33	HV755820	R.CAR.FP	820Ω	1/4W
	R34	HV755820	R.CAR.FP	820Ω	1/4W
	R35	V5875400	R.WW	0.1Ω	5W
	R36	V5875400	R.WW	0.1Ω	5W

* New Parts

Note) Those parts marked with "#" are not included in the P.C.B. ass'y.

P.C.B. MAIN & POWER

	Schm Ref.	PART NO.	Description		
	R37	HL223100	R.MTL.OXD	1Ω	2W
	R38	HL223100	R.MTL.OXD	1Ω	2W
	R39	HL223100	R.MTL.OXD	1Ω	2W
	R40	HL223100	R.MTL.OXD	1Ω	2W
	R41	HV754220	R.CAR.FP	22Ω	1/4W
	R42	HV754220	R.CAR.FP	22Ω	1/4W
	R47	HV754100	R.CAR.FP	10Ω	1/4W
	R54	HV756390	R.CAR.FP	3.9KΩ	1/4W
	R55	HV755470	R.CAR.FP	470Ω	1/4W
	R56	HV755470	R.CAR.FP	470Ω	1/4W
	R57	HV754100	R.CAR.FP	10Ω	1/4W
	R58	HV754100	R.CAR.FP	10Ω	1/4W
	R59	HV754100	R.CAR.FP	10Ω	1/4W
	R60	HV754100	R.CAR.FP	10Ω	1/4W
	R61	HV755820	R.CAR.FP	820Ω	1/4W
	R63	HV755100	R.CAR.FP	100Ω	1/4W
	R64	HV755100	R.CAR.FP	100Ω	1/4W
	R65	HV756120	R.CAR.FP	1.2KΩ	1/4W
	R71	HV754680	R.CAR.FP	68Ω	1/4W
	R73	HV755820	R.CAR.FP	820Ω	1/4W
	R74	HV755820	R.CAR.FP	820Ω	1/4W
	R75	HV755820	R.CAR.FP	820Ω	1/4W
	R81	VH007200	R.MTL.FLM	10KΩ	1/4W
	R82	VH007900	R.MTL.FLM	20KΩ	1/4W
	R83	VH007200	R.MTL.FLM	10KΩ	1/4W
	R84	VH007200	R.MTL.FLM	10KΩ	1/4W
*	R85	HL215150	R.MTL.OXD	150Ω	1W
	R97	V6146800	R.WW	0.22Ω+0.22Ω	
	R98	HV753100	R.CAR.FP	1Ω	1/4W
	R99	HV753100	R.CAR.FP	1Ω	1/4W
	R105	HV756220	R.CAR.FP	2.2KΩ	1/4W
	R106	HV756220	R.CAR.FP	2.2KΩ	1/4W
	R110	HV756470	R.CAR.FP	4.7KΩ	1/4W
	R111	HV756470	R.CAR.FP	4.7KΩ	1/4W
	R131	HV755470	R.CAR.FP	470Ω	1/4W
	R132	HV755470	R.CAR.FP	470Ω	1/4W
	R163	HV755100	R.CAR.FP	100Ω	1/4W
	R164	HV755100	R.CAR.FP	100Ω	1/4W
	R171	HV753470	R.CAR.FP	4.7Ω	1/4W
⚠	RY3	V5876700	RELAY	DC SDT-S-112DMR	
	ST1	BB071360	SCR.TERM	8.3x13	
	SW1	VS066500	SW.PUSH	SPPH13-W	
	SW2	V5178000	SW.SLIDE	SSSF12-P06NO	
	SW3	V5178100	SW.SLIDE	SSSU123-S09NO	
	SW4	V5178000	SW.SLIDE	SSSF12-P06NO	
	TE3	V4811400	TERM.SP	8P(BG)	
	TE3	VV003100	TERM.SP	8P(UCA)	
	TP1	VT969000	PIN.TEST	IRS-2049	
	TP2	VT969000	PIN.TEST	IRS-2049	
	VR1	VJ692800	VR.TRIM	B470Ω	
	VR2	VV954800	VR	10KΩ	
	VR3	VV954700	VR	A5KΩ	
		BB070700	GND.MTL		

* New Parts

	Schm Ref.	PART NO.	Description		
		VN774800	GND.WSHR	MEP1866	#11102
*		V6667500	HEAT.SINK	OSH-1035-WPL	
		EG330050	SCR.BND.HD	3x8	FCRM3-BL
*		V5890500	P.C.B.	POWER(UC)	
*		V5890600	P.C.B.	POWER(A)	
*		V5890700	P.C.B.	POWER(BG)	
	CB201	LB932040	CN.BS.PIN	4P	
	CB202	LB932030	CN.BS.PIN	3P	
*	CB203	V6577400	HOLDER.FUS	FUC-04(UC)	
	CB203	VT658200	HOLDER.FUS	PC-FH1(ABG)	
*	CB204	V6577400	HOLDER.FUS	FUC-04(UC)	
	CB204	VT658200	HOLDER.FUS	PC-FH1(ABG)	
	CB205	VB389900	CN.BS.PIN	3P	
	C201	V5877600	C.MYLAR	0.47uF	250V(UC)
	C201	V5900200	C.MYLAR	1uF	250V(ABG)
*	C202	VY675100	C.CE.SAFTY	4700pF	250V(ABG)
*	C203	VY675100	C.CE.SAFTY	4700pF	250V(ABG)
	C204	V6146600	C.CE.SAFTY	2200pF	250V
	C205	V6146600	C.CE.SAFTY	2200pF	250V
	C206	V5877600	C.MYLAR	0.47uF	250V(ABG)
	C206	V5877700	C.MYLAR	0.22uF	250V(UC)
	C207	VS741700	C.CE.SAFTY	0.01uF	275V
*	C208	VT721100	C.EL	220uF	25V
*	C209	V5873400	C.EL	1800uF	200V(UC)
*	C209	V5873800	C.EL	1200uF	250V(ABG)
*	C210	V5873400	C.EL	1800uF	200V(UC)
*	C210	V5873800	C.EL	1200uF	250V(ABG)
*	C211	VT722700	C.EL	1000uF	25V
	C212	VT718300	C.EL	100uF	6.3V
	C213	VT718300	C.EL	100uF	6.3V
	C214	V5878200	C.PP	1500pF	630V
	C215	V5878200	C.PP	1500pF	630V
*	C216	V5900300	C.MYLAR	2.2uF	250V
*	C217	VT720600	C.EL	10uF	16V
	C218	UA654270	C.MYLAR	0.027uF	50V
	C219	UA654270	C.MYLAR	0.027uF	50V
	C220	UA655150	C.MYLAR	0.15uF	50V
	C221	UA655150	C.MYLAR	0.15uF	50V
⚠	D201	VN932100	DIODE	RBV-606	
	D202	VU264100	DIODE	1SR139-400	
⚠	D203	VR253700	DIODE.BRG	S1NB20	1.0A 200V
	D204	iF004600	DIODE	1SS133	
*	D205	VN774600	THYRISTOR	TM1661S-L	16.00A
	D206	VU264100	DIODE	1SR139-400	
	D207	VU264100	DIODE	1SR139-400	
	D208	VU264100	DIODE	1SR139-400	
	D209	VU264100	DIODE	1SR139-400	
⚠	F201	KB001540	FUSE	12A	250V(UC)
⚠	F201	KB001890	FUSE	T6.3A	250V(ABG)
	IC202	iG160100	IC	NJM78L08A	8V

* New Parts

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P.C.B. POWER

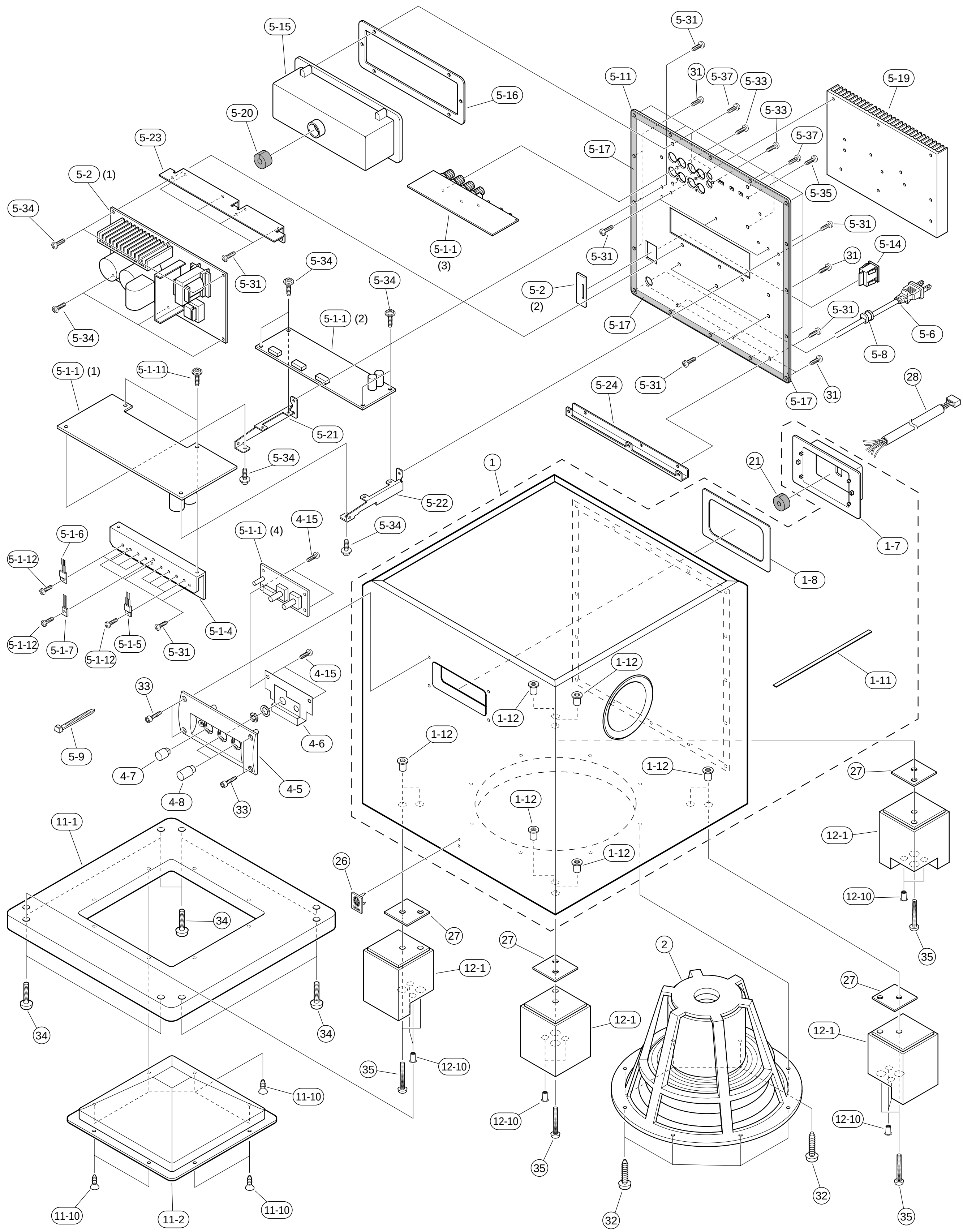
	Schm Ref.	PART NO.	Description	
*	L201	VN398100	COIL	2x44mH(ABG)
*	L201	VP234300	COIL	2x8.2mH(UC)
	Q201	iC224030	TR	2SC2240 GR,BL
	Q202	VT574100	TR	2SC4140
	Q203	VT574100	TR	2SC4140
	Q204	V6018400	TR	2SC4163
	Q205	V6018400	TR	2SC4163
	Q206	VD493300	TR	2SD400 F
	Q207	VD493300	TR	2SD400 F
	R201	V6146900	R.WW	6.8Ω 7W
	R202	HV756100	R.CAR.FP	1KΩ 1/4W
	R203	HV754220	R.CAR.FP	22Ω 1/4W
	R204	HV754220	R.CAR.FP	22Ω 1/4W
	R205	HV758220	R.CAR.FP	220KΩ 1/4W
	R206	HV758220	R.CAR.FP	220KΩ 1/4W
	R207	HV753220	R.CAR.FP	2.2Ω 1/4W
	R214	HL217680	R.MTL.OXD	68KΩ 1W
	R215	HL217680	R.MTL.OXD	68KΩ 1W
	R216	HL223100	R.MTL.OXD	1Ω 2W
	R217	HL223100	R.MTL.OXD	1Ω 2W
	R218	HV753680	R.CAR.FP	6.8Ω 1/4W
	R219	HV753680	R.CAR.FP	6.8Ω 1/4W
	R220	HV753100	R.CAR.FP	1Ω 1/4W
	R221	HV753100	R.CAR.FP	1Ω 1/4W
	R222	HV753100	R.CAR.FP	1Ω 1/4W
	R223	HV753100	R.CAR.FP	1Ω 1/4W
⚠	RY201	V5876700	RELAY	DC SDT-S-112DMR
⚠*	T201	XV443A00	TRANS.PWR	(UC)
⚠*	T201	XV445A00	TRANS.PWR	(ABG)
⚠*	T202	XY913A00	TRANS.PWR	(UC)
⚠*	T202	XY914A00	TRANS.PWR	(A)
⚠*	T202	XY915A00	TRANS.PWR	(BG)
	TE201	VT658100	TERM.WRAP	352-TX119
	TE202	VT658100	TERM.WRAP	352-TX119
	TP201	VT969000	PIN.TEST	IRS-2049
	TP202	VT969000	PIN.TEST	IRS-2049
*	VR201	VJ692700	VR.TRIM	B330Ω
		VK195900	SHEET	19x24
		VK173200	SCR.TR	3x15 SP FCM3
		EP600830	SCR.BND.HD	3x8 FCRM3-BL
		VN774800	GND.WSHR	MEP1866 #11102
		V5901400	HEAT.SINK	OSV15100
		V6093700	HEAT.SINK	

* New Parts

Schm Ref.	PART NO.	Description	

* New Parts

■ EXPLODED VIEW



■ MECHANICAL PARTS

	Ref. No.	PART NO.	Description		Remarks	Markets
*	1	V5890000	CABINET ASS'Y		BL	
*	1	V5890100	CABINET ASS'Y		CH	
*	1-7	V5859600	FRONT COVER			
*	1-8	V5859700	GASKET			
	1-11	CB070450	BINDING TIE	L=100		
	1-12	V5195800	FLANGE NUT	B M6X15.5 MFZN2		
*	2	XY919A00	LOUD SPEAKER	25cm 6Ω		
*	4-5	V5881900	FRONT PANEL			
	4-6	V5860800	SHIELD SHEET			
*	4-7	V5860900	SWITCH KNOB			
*	4-8	V5861200	VOLUME KNOB			
	4-15	EP600280	BIND HEAD P-TITE SCREW	3x8 ZMC2-Y		
*	5-1-1	V5890800	P.C.B. ASS'Y	MAIN		(UCA)
*	5-1-1	V5890900	P.C.B. ASS'Y	MAIN		(BG)
*	5-1-4	V5901700	HEAT SINK			
# *	5-1-5	V5877200	FET	2SK2378	Q16,Q18,Q22,Q24	
# *	5-1-6	V5877000	FET	2SJ406	Q17,Q19,Q23,Q25	
#	5-1-7	VC398100	TRANSISTOR	2SC1846 S	Q39	
	5-1-11	VT669300	PW HEAD B-TITE SCREW	3x8-8 MFC2		
	5-1-12	VK697600	BIND HEAD B-TITE SCREW	3x10 SP ZMC2-Y		
*	5-2	V5890500	P.C.B. ASS'Y	POWER		(UC)
*	5-2	V5890600	P.C.B. ASS'Y	POWER		(A)
*	5-2	V5890700	P.C.B. ASS'Y	POWER		(BG)
⚠	5-6	V3756200	POWER CORD	10A SPT-2 2.1m		(UC)
⚠	5-6	VE371200	POWER CORD	2.5A 250V 2m		(G)
⚠	5-6	VQ790000	POWER CORD	5A 2m		(B)
⚠	5-6	VT666200	POWER CORD ASS'Y			(A)
	5-8	VT665900	CORD STOPPER	SR-4K-4		
	5-9	CB069250	BINDING TIE	BK-1		
*	5-11	V5899200	REAR PANEL			(UC)
*	5-11	V5899300	REAR PANEL			(A)
*	5-11	V5899400	REAR PANEL			(BG)
⚠	5-14	V2217000	SWITCH, SEESAW	JW		
	5-15	V5195200	COVER			
*	5-16	V5860000	GASKET			
*	5-17	V5901500	GASKET			
*	5-19	V5901600	HEAT SINK	20BS220-L145-K		
	5-20	VS755300	BUSH, B			
*	5-21	V5901800	SUPPORT/PCB-L			
*	5-22	V5901900	SUPPORT/PCB-R			
*	5-23	V5906600	SUPPORT ASS'Y, L			
*	5-24	V5906700	SUPPORT B			
*	5-31	Ei330086	BIND HEAD B-TITE SCREW	3x8 FCRM3-BL		
*	5-33	EX601360	BIND HEAD P-TITE SCREW	3x10 FCRM3-BL		
	5-34	VT669300	PW HEAD B-TITE SCREW	3x8-8 MFC2		
*	5-35	EX601890	BIND HEAD BONDING SCREW	3x6 FCRM3-BL		
	5-37	EP640170	SEMS BIND HEAD P-TITE SCREW	4x12 MFC2-BL		
*	11-1	V5899500	BASE			
*	11-2	V5836700	REFLECTOR			
*	11-10	V5858900	FLAT HEAD TAPPING SCREW #1(+	4.0x14		
*	12-1	V5859900	LEG			
	12-10	03763040	FLANGE NUT	D 6.0X13 MFZN2Y		
	21	VS755300	BUSH, B			

* New Parts

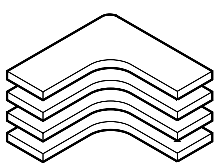
Note) Those parts marked with "#" are not included in the P.C.B. ass'y.

YST-SW800

Ref. No.	PART NO.	Description		Remarks	Markets
26	V2729700	EMBLEM	A		
* 27	V5881600	SPACER			
* 28	V6512500	INSULATOR			
31	EP040370	BINDING HEAD TAPPING SCREW	4x30 MFC2-BL		
* 32	V5901000	BIND HEAD TAPPING SCREW	4x35 MFC2BL		
* 33	V6018100	HEXAGON SOCKET TAPPING SCREW	4x16 MFCR33		
34	VB131900	BIND HEAD SCREW	6x25 MFZN2-BL		
* 35	V5861300	BIND HEAD SCREW	6x50		
		ACCESSORIES			
* 203	V6626800	PAD	1pc.		

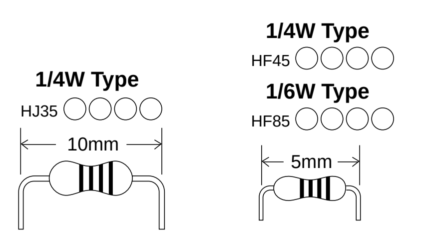
* New Parts

203 X 4



Parts List for Carbon Resistors

Value	**1/4W** Type Part No.	**1/6W** Type Part No.	Value	**1/4W** Type Part No.	**1/6W** Type Part No.
1.0 Ω	HJ35 3100	HF85 3100	10 kΩ	HF45 7100	HF45 7100
1.8 Ω	HJ35 3180	❉	11 kΩ	HF45 7110	HF45 7110
2.2 Ω	HJ35 3220	HF85 3220	12 kΩ	HJ35 7120	HF85 7120
3.3 Ω	HJ35 3330	HF85 3330	13 kΩ	HF45 7130	HF45 7130
4.7 Ω	HJ35 3470	HF85 3470	15 kΩ	HF45 7150	HF45 7150
5.6 Ω	HJ35 3560	HF85 3560	18 kΩ	HF45 7180	HF45 7180
10 Ω	HF45 4100	HF45 4100	22 kΩ	HF45 7220	HF45 7220
15 Ω	HJ35 4150	HF85 4150	24 kΩ	HF45 7240	HF45 7240
22 Ω	HF45 4220	HF45 4220	27 kΩ	HJ35 7270	HF85 7270
27 Ω	HJ35 4270	HF85 4270	30 kΩ	HF45 7300	HF45 7300
33 Ω	HF45 4330	HF45 4330	33 kΩ	HF45 7330	HF45 7330
39 Ω	HJ35 4470	HF85 4390	36 kΩ	HF45 7360	HF45 7360
47 Ω	HF45 4470	HF45 4470	39 kΩ	HF45 7390	HF45 7390
56 Ω	HF45 4560	HF45 4560	47 kΩ	HF45 7470	HF45 7470
68 Ω	HF45 4680	HF45 4680	51 kΩ	HF45 7510	HF45 7510
75 Ω	HF45 4750	HF45 4750	56 kΩ	HF45 7560	HF45 7560
82 Ω	HF45 4820	HF45 4820	62 kΩ	HF45 7620	HF45 7620
91 Ω	HF45 4910	HF45 4910	68 kΩ	HF45 7680	HF45 7680
100 Ω	HF45 5100	HF45 5100	82 kΩ	HF45 7820	HF45 7820
110 Ω	HJ35 5110	HF85 5110	91 kΩ	HF45 7910	HF45 7910
120 Ω	HF45 5120	HF45 5120	100 kΩ	HF45 8100	HF45 8100
150 Ω	HF45 5150	HF45 5150	110 kΩ	HF45 8110	HF45 8110
160 Ω	HJ35 5160	❉	120 kΩ	HF45 8120	HF45 8120
180 Ω	HF45 5180	HF45 5180	150 kΩ	HF45 8150	HF45 8150
200 Ω	HF45 5200	HF45 5200	180 kΩ	HF45 8180	HF45 8180
220 Ω	HF45 5220	HF45 5220	220 kΩ	HJ35 8220	HF85 8220
270 Ω	HF45 5270	HF45 5270	270 kΩ	HF45 8270	HF45 8270
330 Ω	HF45 5330	HF45 5330	300 kΩ	HF45 8300	HF45 8300
390 Ω	HF45 5390	HF45 5390	330 kΩ	HF45 8330	HF45 8330
430 Ω	HF45 5430	HF45 5430	390 kΩ	HJ35 8390	HF85 8390
470 Ω	HF45 5470	HF45 5470	470 kΩ	HF45 8470	HF45 8470
510 Ω	HF45 5510	HF45 5510	560 kΩ	HJ35 8560	HF85 8560
560 Ω	HF45 5560	HF45 5560	680 kΩ	HJ35 8680	HF85 8680
680 Ω	HF45 5680	HF45 5680	820 kΩ	HJ35 8820	HF85 8820
820 Ω	HF45 5820	HF45 5820	1.0 MΩ	HF45 9100	HF45 9100
910 Ω	HF45 5910	HF45 5910	1.2 MΩ	HJ35 9120	❉
1.0 kΩ	HF45 6100	HF45 6100	1.5 MΩ	HJ35 9150	HF85 9150
1.2 kΩ	HF45 6120	HF45 6120	1.8 MΩ	HJ35 9180	HF85 9180
1.5 kΩ	HF45 6150	HF45 6150	2.2 MΩ	HJ35 9220	HF85 9220
1.8 kΩ	HF45 6180	HF45 6180	3.3 MΩ	HJ35 9330	HF85 9330
2.0 kΩ	HJ35 6200	HF85 6200	3.9 MΩ	HJ35 9390	❉
2.2 kΩ	HF45 6220	HF45 6220	4.7 MΩ	HJ35 9470	HF85 9470
2.4 kΩ	HJ35 6240	HF85 6240			
2.7 kΩ	HF45 6270	HF45 6270			
3.0 kΩ	HF45 6300	HF45 6300			
3.3 kΩ	HF45 6330	HF45 6330			
3.6 kΩ	HJ35 6360	HF85 6360			
3.9 kΩ	HF45 6390	HF45 6390			
4.7 kΩ	HF45 6470	HF45 6470			
5.1 kΩ	HF45 6510	HF45 6510			
5.6 kΩ	HF45 6560	HF45 6560			
6.8 kΩ	HF45 6680	HF45 6680			
8.2 kΩ	HF45 6820	HF45 6820			
9.1 kΩ	HF45 6910	HF45 6910			



1992

YST-SW800

YAMAHA